



TO THE HIGH AND MIGHTY CHARLES, ONLY

SONNE OF HIS MAIESTY, PRINCE OF Wales, DVKE of Cornewall, Yorke, and Albany, MAR-QVISE of Ormori, EARLE of Chefter, and Rop, Lord Admanoch, and KNIC art of the goof nable order of the Gartet.



Ow much the *Gracians* excelled all other Nations in the Sciences called Liberall, is better knowne in generall, then needfull at this time particularly to be rehearfed to your *Highneffe*. The *Romans* themselves albeit otherwise ambitious, and out of meafure thirsty of honour, and challen

ging to themselues the highest degree of grauity, constancie, greatnesse of minde, wisedome, faith, and skill of war, contended not herein, but freely left them the possession of that praise vnquestioned. For warre it is not my purpose at this time to make comparison, or commit the two Nations together. The controuersie is already moved by other, and hangeth vndecided in the Court of learning. Thus much, me thinks, I may truly affirme, that the Gracians were the first, that out of variety of actions, and long experience reduced the knowledge of Armes into an Arte, and gaue precepts for the orderly mouing a Battaste, and taught, that the moments of victory rested not in the

hands of multitudes, but in a few men rightly instructed to manage armes, and trained vp in the observation of the discipline of the field. In which regard they had almost in all Cities amongst them Masters of Armes, whom they called Tatticks, which deliuered the Arte Military to fuch, as were defirous to learne. Out of whose Schooles issued those chiefs of warre in number so many, in skill so exquisite, in valor so peerelesse, in all vertues beseeming great Generals so admirable, that no Nation of Europe euen to this day hath been able to match, much lesse to ouer-match their fame, and glory. And the time was when the Lacedemonians exceeded the rest in Martiall skill, and were thought to be the best Souldiers of Greece; by meanes whereof they advanced themselves to the Principality of Greece, which they held with fuch reputation, that an enes mie by the space of 500 yeares was not seene within their Territory. Till at last growing insolent, and surfeiting of and being not able to brooke their owne fortune, they fought to oppresse, and with wrong and force to possesse the City of Thebes, and stirred vp Epaminondas a Theban by birth, and from his tender yeares nourished by his fa thers care in the study of Philosophy, and the science of Armes, to oppose against them, who in two battailes, the one at Leuttra, the other at Mantinea so broke their forces, that from that day forth they were neuer able to recouer. their wonted authority, and power in the field. Philip the sonne of Amyntas King of Macedonia, being but a private man, was deliuered as a hostage to the Thebans, & brought, vp in the same house and learning with Epaminondas. He afterward became King of Macedonia; which being of it. felfe but a poore kingdome, and before his time sometimes, kept under by the Athenians, sometimes by the Lacedemonia ens, sometimes by the Thebans, & finding it at his entrance

to the Crowne harried, and spoiled by the Paonians, and forced to pay tribute by the flyrians, by erecting a new arte, and discipline of warre, to which he exercised, and enured his Macedonians, he not only freed his Countrey from the Barbarous nations, but also ouercame the Gracians, accounted the only Masters of armes till that day, and caused himfelfe to be declared Generall of Greece against the Persians: against whom after he had made his full preparation, he refolued to go in person. But being preuented by death, he left the fuccession of his kingdom, and execution of his designes to Alexander his sonne, whom he had before curiously instructed in the discipline of Armes invented by himselfe. The same Alexander (being about 20 yeares of age) after he had vangi shed Darius in 2 great battailes in 12 yeeres ran through, and subjected the spacious, rich, and flourishing kingdomes of Asia, even as far, as the East Indies, and with terror of armes made the whole world to tremble at his name. His kingdomes were after his death divided amongst many Successors, who by the same Arte military easily maintained the possession of their conquests. This Arte is it, that I at this time present vnto your Highnesse. It was comprised in writing by many, and yet none of their works attained our age, but only that of Ælian; who hath in a small volume so expressed the arte, that nothing is more short, nothing more linked together in coherence of precepts, and yet diftinguished with such variety, that all motions requifice, or to be vied in a Battaile are fully expressed therin. Helian lived in the time of Adrianthe Emperor. How much the booke was of ancient time effeemed may appeare by this alone, that Leo a succeeding Emperor setting downe Martiall instructions for the government of his Empire, transcribeth whole passages out of Ælian,& whensoeuer he citeth, or nameth the Tadicks, he giveth still the first place vnto Ælian. Howbeit

Howbeit the practise of Aelians precepts hath long lien wrapped vp in darknes, & buried (as it were) in the ruines of time, vntill it was reuiued, & restored to light not long since in the vnited Prouinces of the low-Countries, which Countries at this day are the Schoole of war, whither the most Martiall spirits of Europe resort to lay downe the Apprentiship of their service in Armes, and it was revived by the direction of that Heroicall Prince Maurice of Nassau, Prince of Orange, Gouernour, and Generall of the faid Countries, a Prince borne and bred vp in Armes, and (beside the completenes of his other eminent vertues) for skill, experience, judgement, and military literature comparable to the greatest Generals, that euer were. I have of late adventured to take from Ælian his Greekish cloake, and to put him in English apparell, that in that habit he might attend your Highnesse, and be ready with his seruice, in case he were thought worthy of employment. He had before for his Patron Adrian, an Emperor, and Ruler of the Roman world. Now he humbly craueth your HIGHNESS E fauour for his protection, who as in Princely descent, and succession of Royall blood you are farre superior, so in vertues worthy of your birth, and yeares, and in all hopefull expectations are you nothing inferior to Adrian. It may please your Highnesse to regard him with a gratious eye, and to esteeme the Presentor of him your faithfull bedefman, that will not cease to pray to the mighty God of hosts, to give you conquest ouer all your enemies. From my Garrison at Woudrichem in Holland the 20 of September 1616.

Your Highnesse most humbly denoted,

Io: BINGHAM.



THE TACTICKS OF ÆLIAN or art of embattailing an army after the Grecian manner.



HE Grecian arte of embattailing an army (most mightie Augustus (esar Adrian) the antiquitie whereof reacheth back to the age wherein Homer lyved, hath beene committed to wryting by many, whose skill in the Mathematicks was not reputed equal with

myne: whereby I was induced to thinke it possible for me foe to deliver the groundes therof, that posteritie should rather regard and esteeme my labors, then theirs, that before me haue handled the same argument. But weighing againe myn own ignorance (for I must consesse a truth) in that skill & practise of armes, which is now in esteeme among the *Romaines*, I was by feare with held from reviving a science half dead, as it were, and since the invention of that other by your auncestors, altogeather out of request and vnregarded. Notwithstanding comming afterward to *Formie* to doe my dutie to the 'Emperour *Nerva—your maiesties father, It was my fortune to spend sometime with 'Frontine a man of Consular dignitie, and of great reputacion by reason of his experience

in militarie affaires: and after conference with him perceiving he imparted no leffe studie to the Grecian, then to the Romaine discipline of armes I began not to despise that of the Grecians, conceiving that Frontine would not so much affect it, if hee thought it inferiour to the Romaine. Having therefore in times past framed a project of this worke, but yet not daring then to publish it inregard of ' yourmajesties incomparable valour, and experience, which make you famous aboue ali Generalis without exception, that euer were: I have of late taken it againe in hand, & finished it, being (if I deceaue not my felf) a worke both worthy to be accompted of, & of fufficiencie, especially with such as are studious of the arte, to obscure the credit of the auncient Tatticks. For in respect of the perspicuitie I dare bouldlie affirme, the reader shall more advantage himselse by this little volume, then by altheir writings: fuch is the order and methode, I haue followed. Howbeit I durst scarcely offer it to your majestie who have beene Generall of so greate warres, least happily it proue too flender a prefent, & altogether vnworthy of your facred viewe. And yet if your majestie shall bee pleased to thinke of it, as of a Greekish Theorie, or a various discourse it may bee, it will give you some little delight, the rather because you may therin behold 4 Alexander the Macedons manner of marshalling his fields. And for that I am not ignorant of your majestiesmore weightie affaires, I haue reparted it into chapters, to the end you may without reading the booke in few wordes take the somme of that, which is to bee delivered, and without losse of time find the places you are desirous to perule.

Notes.

He Tacticks As Taxis in a general sence signifieth order, so Tacticos is as much, 1 as pertenning to order : but specially taken, it signifieth partenning to order of a battaile, or to the embattailing of an army. Hereof the arte of embattailing an army is called Tactice and hee, that is skillful, and experienced in that arte. Tacticos (Vegetius na- 2 Veget, prolog meth him magistrum armorum) and the books written of the arte, Tactica. And that this is the true fignification of the word may appeare by XenophonsCyropadia, where the arte Tactick is distinguished from the arte Imperatory, or arte of a Generall. Hee induceth Cyrus, in a dissourse with big stater speaking thus; b In the end you asked b xcoopb or mee what my master taught mee, when hee protessed to teach the art Imperatory. And when I answered, the Tacticks, you smiled, and as ked particularly, what the Tacticks availed without provision of thinges necessary to line by: what without preservacion of health? what without knowledge of arts invented for the vie of warre? what without obedience? so that you plainely shewed, that the Tacticks are but a small portion of the arte Imperatory, or of commanding an army. Thus Xenophon: making a difference between the arte Imperatory of the arte Tactick. And in other place hee speaketh yet more particularly: Cy- e Xenophon cyrus, fardhee, efte ned it not the duty of a Tactick to enlarge onely, or to ftretch out in length, the front of his Phalange, or to drawe it out in depth, or to reduce it from a winge to a Phalange, or to countermarche readily, the enemy shewing himselfe on the right, or left hand, or in the rear, but to divide it, when need is, & to place euery part for most advantage, & to leade it on speedily, when occasion is of prevention, Tet sometimes in a generall signification books entreating of the whole arte of warr are called Tacticks : as the Constitutions military of the Emperour Leo are entituled Tactica Leonis, perhaps of the best parte, because the a arte of embattailing an army hath alwayes been esteemed the chiefest point of skill in a Plocin Philoa Generall. Howbeit Elianin his title of this booke taketh Tactice in the freighter e intra cap 3. fignification : as appeareth by the definitions, he alleageth out of Anaas and Polibius: of whome the first defineth the art Tactick to bee a science of warlick motion; with whome also , Leo agreeth: the other , to bee a skill, whereby , a man taking a multi- f Leo.cap.t. tude serviceable, ordereth it into files, and bodies, and instructeth it sufficiently in all thinges apperteining to warre. Which two definitions comprehend in fewer words the argument of the whole booke. For first Elian intreateth of levieng, or of arming men, then of filing, next of joyning files, and making bodies, after of ordering the whole Phalange, or battaile, further of motions requisit to affront the enemy, wher foever he givethon, whether in front, flank, or reare; laftly of marching, and of the fondry formes of battailes carieng with them advantage of charging or repulling the enemy in your marche. He that will further understand the boundes of this arte let him reade in the 21 .chapter of Leo the 58 .fection. The Emperour Nerva your maiesties Father | The Emperour Nerva here

mentioned was not Nerva Cocceius, whoe succeeded Domitian, but V lpius Traianus, who was also called Nerva, because he was adopted by Nerva Cocceius, & succeeded in the Empire. And where Elian termeth him Adrians father, indeed Adrian pretended, he was Traians sonne by adoption. But & Dio plainely denieth it, & Spartian saith, some repor- & Dio & Spar ted hee was adopted by the faction of Plotina (Traians wife) by substituting one to speake with a faint voice, as if it had beene Traian vpon his death-bed, whereas Traian was before departed this world. This is agreed, that he was Cosin

Notes.

2 To fpend some time with Frontine] Frontine heer mentioned was the same that wrote the book of Strategemes, now extant, & commonly to ned in one volume with Vegetius. Hee was aman curious in the searche of the Gracian discipline, as may be scene by his owne preface to his bookes of Strategemes: & by the testimony of Alian , & in the first chapter of this treatise, is reckoned amongest the Tactick writers. "Vegetius reporteth hewas much esteemed by the Emperour Traian. Hee lived also in greate reputation in the time of Veftafian: at least if it bee hee, that Tacitus speaketh of in the life of Iulius Agricola. And yet it might bee he very well, there being noe more then twenty yeares, or certaine monthes betwixte the reigns of Traian, of the reigne of Velpalian in whole time b Tack in via Frontine is reported by Tacitus to have overthrowne the Silvres in Britaine. Rlian in the next chapter calleth him Fronto. Of one Fronto, that was Consul in the third year of thereigne of Traian, I read in Dio. whole faying is reported to have been: That it was e Dioin vita Neiva. ill to have an Emperour, vnder whome noe man might have liberty to doc any thing, but much worse to haue an Emperour, vnder whome every man might doe what hee lift. But this Fronto was not Alians Fronto. He was called Marcus Cornelius Fronto; this (that Elian Beakethof) Iulius Frontine Andyet it is noe wonder that Frontine in latine should be called Fronto in Greek, it being voual for the Gracians to varie, and deflect a litle from the property of the latine names.

3 Your majesties incomparable valor & experience] That this praise given Adrian is not altogether without cause, may appeare by that, which & Elius Spartianus writeth in the life of Adria. His wordes have this meaning. After this, taking his journey into France, he was bowntifull to all, as he fawe cause. From thence hee passed into Germany, & being rather desirous of peace, then warre, yet hee so exercifed his fouldiers, as though warre were at hand; teaching them to indure paines & hardnesse, himselfegiving an example of military life: gladly alfo vling Camp fare, as namely lard, & cheefe, for meate, & water mingled with vineger for drink, in imitation of Scipio Æmilianus, & of Metellus, & of Traian the author of his preferment & rifing, bestowing rewardes vpon many, honors vpon some, to encourage them to beare such things, as seemed harshe in his commaundes. And furely it was hee next Octavius, that vpheld military discipline (declyning nowe through the remissenesse of former Emperouss) by ordering both the places of Commaunde, & the payes, never suffering any man to absent himselse from the Campe, but vpon just cause: measuring the worthe of Tribunes not by favour of the fouldiers, but by their owne defert; exhorting, & exciting all the rest by example of his owne vertue, whilest hee often marched twenty miles on foote, being fully armed, broke downe banquetting howses, and galleries, &vaults for coolenesse, & arbors, wheresoever hee found them in the Campe; & was seene in a plaine garment vsually; wore a baudricke not gamished with gold, buttons without gemmes; scarcely allowing an ivory handle to his fword; vifited his fick fouldiers in their lodgings, himselse chose out the grownd to encampe in: made noe Captaine, but a man of a strong body, noe Tribune, but with a growne beard, or of age, that by prudence, and yeares was able to fway the weight of the place : nor fuffred him to take ought from the fouldier ; removed all delicacies; and laftly reformed theire armes, and baggage. Hee had besides consideration of the age of fouldiers, allowing none younger, then was befitting vertue; nor elder, then stood with the lawes of humanity, to bee conversant in the Campe, con-

of Ælian.

trary to old custome, and vsage: and gaue himselfe to haue particuler knowledge of them all, and what theire number was. Furthermore hee was carefull to ynderstand the controversies betwixt souldier and souldier, and searched with great attentiuenesse into the revenues of the Provinces, to the end to fupply, what was wanting; endevouring notwithstanding aboue all neither to buy, nor feede ought, that was not for vie. Wherefore when he had fashioned his fouldiers to his owne example, he passed over into Britaine, where hee corrected many thinges, and was the first, that drew a wall along by the space of eighty mile; wherewith hee divided the Romans from the barbarous people. Hetherto Spartian. I have recited the history at large, because I might represent the picture of an excellent Generall.

4 Alexander the Macedons manner.] That this booke comprehendeth the Macedonian discipline of armes, I will showe heereafter, as particulers offer themfelues. In the meane time let this suffice for an argument, that Alian doubtethnot to affirme it to Adrian , a Prince excellently learned in the Greeke language; and as by reason of his skill hee was able to discerne, so by his authoritie hee would have censured so grosse an escape, if it had been otherwise, then Ælian reporteth.



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tine a man of Confular dignitie, in our time are to be read. * Aneas perfected the Theorie thereof at large publishing many volumes of warfare, which were abridged by Cyneas the Theffalian. Likewife + Pyrrhus the Epirose wrote Tacticks, and his sonne's Alexander, and Clearchus, and Pausanias, and & Euangelus, & 7 Polibius the Megapolitan (a man of great learning, Scipioes companyon) & Lupolemus, and & Iphicrates; Posidonius also the Stoick lett forth the art of warre, & many other, fome in Introductions, as Brion, fome in large Tactick volumes. Al which, I have feene, and read, and yet thinke it not much to purpose to mention perticulerlie; being not ignorant, that it hath beene the manner of those writers for the most parte, to applie theire stile not to the ignorant, but to such as are alreadie acquainted with the matters they intreat of; as for the impediments, which presented themselues to mee, when first I gaue my minde to the studie of this art, as namely neither to happen vpon sufficient Instructours, nor yet to find light, or perspicuitie enough in the precepts delivered: I will endevour, as much as I can, to remoue out of other mens way. And as often as wordes shall faile to expresse my meaning, I will for plainenes sake, vie the direction of figures, and pourtraicts, adioyning thereby the view of the ey, as an aide, and affistance, to the understanding, & withall retaine the termes of auncient authours, to the end, that who foever shal follow this booke for an introduction, being therein exercised both to the same wordes; & also to the viage of things expressed in them, may grow as it were acquainted, and imagine himselfe no straunger, when he cometh to read their workes. By which waies by me prescribed, I make no doubt, they will easely be understood. Now that this art of all other is of most vse, may appeare by Plato in his booke of lawes where he faith: That the Cretan Langiver fo contrived his Laws, as if men were alway prapared to fight. For all cities have by nature unproclaimed warre one against another. Which being fo: what discipline is more to bee esteemed, or more avaylable to mans life, then this of warre. Notes. A 4

of Ælian.

T feemeth by this Chapter, that the Authors , that have of auncient time written Ta-Litiks, have beene many : and those not of such kinde of men , as have given themselves to study, and contemplation alone, but of such, as besides theire knowledge in good letters, have beene actors in warre themselves, & (which is more) principall actors, some of them Generalls, other the next degree to generalls. Howbeit there is none heere mentioned by Ælian, whose workes are extant. Whereby may be esteemed the inestimable losse, these later ages have suffred in being deprived of such excellent monuments. I hope, I may so terme them without offence, though I have not seene them. For what but excellent, can proceed from men of luch excellencie in theire profession! Such as the most parte of those were. Tet, for some of them, I can say nothing, as finding litle remembrance of them in auncient writers. Of this kind are Eupolemus, Stratocles, Hermias, Clearchus, Paulanias: albeit such names may often bee founde: The rest are specially mentioned, and much commended. Of whome I will fet downe, what I finde.

I Frontine a man of Consular dignity] I have before noted some what of Frontine. Wee have of his, as it is thought, other workes besides his stratagemes: But this booke a vegetim lib. 1 of Tacticks, whereof Elian fleaketh, wee have not. I will onely adde the relation of Ve. getius towching Frontine, who writeth thus : Cato the elder, albeit hee had beene both invinceable in armes, and often Generall of great armies, beleeued yet hee should more profit his Countrey, if hee laid downe in writing the discipline of warre. For valiant actes are but of one mans age, but things written for the profite of the state endure for ever. Many other haue done the like, but especially Frontine: whose industry herein was greatly approved by the Em-

perour Traian.

b Polyb libra. 2 Anaas perfected the Theory.] Anaas is mentioned by Polybius in his to. book, where he discourseth of signes to be made by beacons of fire, in case an enemy approacheth to any parte of our Countrey. His bookes were intituled Commentaries of the office of a Generall as Polybius faith: & Elian heere calleth them books of the office of a Generall, the title being all one in effect. Of these bookes none have reached to our age, but one alone, which comprises h precepts of defending a towne besieged, & some s.or 6 .years agoe came first to light, & privitie that worthy man Isaac Casaubon, the learned ornament of his Countrey, (and of England so long, as heelived there) being the setter forth. And it is adjoyned to his edition of Polybius. Thef bookes Tactick of Enaas

were abridged (as Alian faith) by.

3. Cyncas the Thesialian] Plutarchin the life of Pyrrhus telleth vs what C1neas was. There was, faith hee, in the Court of Pyrrhus a Theffalian, a man of great understanding: & whoe having heard the orator Demosthenes, seemed alone of all, that then were esteemed eloquent, to renewe in the memory of the hearers an image & shadowe of the vehemencie & vigor of his vtterance. Pyrrhus held him in his Court, and made vse of him, in sending him in embasfages to people and Cities. In which embassages hee confirmed the saieng of Euripides.

> What ever force can doe, with trenchant swoordes: The same, or more, is wrought by pleasing wordes.

Therefore was Pyrrhus wont to fay, that Cyneas had gayned more Cities with his eloquence, then himselfe with armes. By occasion whereof he did him great honor, & employed him in his principal affaires, "Tilly feaketh of his workes: your letters, (faith he to Papyrius Pætus) haue made me a great Generall: I was altogether ignorant of your fo great skill in military matters. I fee options. you have read the books of Pyrrhus & Cynæas, I therefore purpose to follow your counfel: this yet more, to haue some fewe shippes in a readinesse vpo the fea-coast. They say, there is noe better armour against Parthian horsemen. But why fport wee? you knowe not, with what a Generall you haue to doe. I haue in this my governement fully in practife expressed Xenophons institution of Cyrus: which before I had worne a pieces with reading. Pyrrhus & Cynzas, hee namet b, as two principall Authors of warlick discipline: And where he addeth Xenophon, whoe, though he be not named by Alian amongest the Tactick writers, descreeth yet not 20 be presermitted, having been both a great Comaunder, & besides writte largely of military matters, whose workes also are now extat; let vs see, what he faith of him in another place. Cyrus, faith he, is written by Xenophon, not according to the truthe of b Boiletad Q. an history, but for a patterne of just governement. Whose wondrous granity is by that Philosopher matched with singuler Curtesse, which bookes our A. fricanus, (and that not without cause) was never wont to let goe out of his handes, And of Africanus he reporteth the like in his 'Tusculan quæstions.

4 Pyrrhus the Epriote wrote Tacticks.] Pyrrhus the K. of Epirus was of aun. cient time esteemed one of the be Teneralls, that ever was. What Anniballs judgement a Live. decad. was of him Livy reporteth, or I tarch in the life of Pyrrhus. And Antigonus being de plus in Pyrtho. maunded, whom hee thought the greatest generall, then living, aunswered Pyrrhus. And where other Kings imitated Alexander the great in purple apparaile in number of gardes about theire persons, in carieng the necke a litleawry, & inspeaking lowde, hee alone repræsented him in exploictes of armes, & in deedes of prowes, faith Plutarch. Plutarch faith likewife: Towching his skill in the arte formands in military howe to order a battaile, and howe to bring his men to fighte with most advantage, a man may draw proofe sufficient out of the books, he wrote;

of which bookes Tully spake in the last paragraph.

And his sonne Alexander.] Pyrrhus had by his first wife Antigene a sonne called Ptolomer, by Lana [a, another called Alexander, & by Bircanna, the third named Helenus. 8 All which albeit by race & inclination of a ture they were Martial, 8 yuho. yet brought he them vp, & from theire birth framed & enured to armes. And the report is, when vpon a time one of them, yet a chylde, asked him to which of them he would leave his kingdome, to him, aunswered Pyrrhus, who shall have the sharpest sworde: h Iuftin also makes mention of these three sonnes. Ptolomey h tall to 18, was laine a: Sparta, as lustin would have it. Plutarch saith he was staine in the way be. Libs, 607.D twixt Sparta & Argos. Alexander reigned after his fathers deceafe, in the Realme of E. pirus. That hee wrote Tacticks, I have not read, but in Alian onely.

us. That heerorote Tacticks, i naue not reaa, out in Alian onery.

6 And Evangelus] Plutarch discoursing of the studies of Philopamen hath this Diprophilibs. in effed: "He tooke noe delight to heare al kinde of discourses, nor to reade al melbuard in books of Philosophy, but such onely, as might profit to the daylie encrease of Philosophy, vertue; And hee read not willingly other passages of Homer, then such, as hee thought had some efficacy to moue a mans hart to prowes. But amongest, and about al other readings, he specially affected the Tacticks of Eurngelus: & like wise the histories of the exploits of Alexader the great. This is al I find of the Ta-Hicks of Evangelus. I gessenotwithstanding, he was a choice author, because Philopemen had him in fach effective; of who me the fame " Plut arch writeth: That Greece " Toid, bore him singuler affection, as the last vertuous man, which shee brought

foorthin her ould age, after so many great, and renowmed Captaines of auncient time; and alwayes augmented his power, and authority, as his glory encreated. In which respect a Roman, praising him, called him the last Græcian; meaning that after him Greece bred noe great, nor any personage in

deed worthy of her. And Polybius] It is the same Polybius , whose History , so much as is extant, that excellent learned man Isaac Casaubon translated into Latin, and set foorth 1609. For his life and worth refort to the preface of the same Casaubon to Polybius his history. Hee had beene in Achaia, his owne country, Generall of the borse. Afterward being in displeasure with the Romans , hee lived long in pri-(on at Rome : and was for his worth finally released by intercession of the greaseft men of Rome : and became companion to Scipio Africanus the younger; with whom also he was at the siege and destruction of Carthage. His Tacticks, whereof Alian speaketh, are perished with other of his workes. Tet are there many passages dispersed heer, and there in his history, which argue his extraordinary skill in matters of warre. And it may feeme, that Alian hath taken much from him both for matter, and wordes.

8 Iphicrates] Whoe will reade of Iphicrates, let him goe to a Amilius Probus, that writeth his life. His actes are also declared by Xenophon , and Diodorus Siculus, and Polyan, and Iustin and divers others, as they were incident to theire generall 587.B.c. lus, and Polyan, and Infilia and die of the best Generalls of his time: and was called our Diod siculibits historics. Hee was esteemed one of the best Generalls of his time: and was called our Polyen labe in by name by Darius King of Persia to bee generall of the Gracians, his mercenaries, in

tobleauc. Idialbo 6 51 the warre, he had against the Agyptians : His fame and astimation was soe great with Alexander the great, that when his sonne (whose name was also Iphicrates) with other Gracians were taken prisoners by him, for that they came embassadours into Persia to Darius, he not onely pared him for the love of the City of Athens, and for the b Adian. lib 2 remembrance of his fathers glory (the wordes of Arrian) but held him about him in

honour folong, as he lived, and after his decease fent his reliques to Athens, there to be interred by his friendes, and kinffolk.

9 Posidonius the Stoick Posidonius in his time was a Philosopher of high renowne, and of the feet, that were called Stoicks. Tully citeth him often in his workes. e Trient quellir In the second booke of Tusculan quastions heerecounteth, e that Pompey the great, on a time comminge to Rhodes, was defirous to heare him. But vnderstanding hee was extreamefick of the goute, hee forbore not notwithstanding to visit him being a most noble philosopher: whome after hee had seene, and saluted, and vsed with honorable wordes, and told him, hee was fory, hee could not heare him discourse, you may, if you please, quoth Posidonius: and I will not suffer paine to bee cause, that so great a man seeke mee in vaine. Then, as hee lay in his bed, began hee gravely, and copioufly, to dispute, that nothing was good, but that, which was honest. And when firebrands, as it were, of torment towched him to the quick amiddest his disputation, he broke foorth often into these wordes: Sorow, all this is nothing: Though thou troubk me nea pin. securit ver someth, will not yet confesse, that thou art of the self-evill. So Tully a pliny like-ballby-seep to mise telleth, that Pompey after the warre of Mithridates appreciate the hours of Posidonius, a man famous in Philosophy, forbid his serieant to knock at the

doore(as the manner was,) and the fericants bundles of roddes(faith he) were fubmitted to a doore by him, to whom East & West had submitted theselues. e Cierro dena The same "Tully attributeth to this Posidonius the invention of a Sphare, whose particuler conversions did worke the same in sonne & moone, and the other fiue planets, that is wrought by the motion of heaven every day and night.

The preparation of warlicke forces and division of them, and how they are armed.

of Ælian.

CHAP. II.

will then beginne with fuch preparations as are absolutely necessary for Lervice in warre, the forces whereof are of two fortes, the one Land forces, the other ship forces. Land forces are such, as fight on land: Ship forces fuch, as are ordered for fight in shippes vppon Sea, or Rivers. But the order of Sea service I will referue for another place, and intreat now of things pertayning to Land service. The levies then for land service are either of those, that fight, and mannage Armes, or else of those that fight not, but remaine in the campe for necessary wses. They fight that stand ordered in battaile, and with arms [affaile or] repulse the enemy. The rest fight not, as Phistians, merchants, servants, and other, which follow the campe to minister vnto it. Such as fight, are either footemen, or Riders : footemen properly, that serue on foote. Of Riders, some vie Horses some Elephants. They, that vie Horses , are carye ither one Horse-back , or else in Chariotts. And these are the differences in generall. But in speciall the foote, and Horse receaue many other divisions; onely the Elephants, and Chariotts, never varie. Footemen then are reparted into three kindes, one being Armed, another Targettiers, the third light, or naked. . The Armed beare the heaviest furniture of all footemen ving according to the Macedonian manner large, round, Targetts, and Ionge Pikes: 5 The Light contrarywise beare the lightest , having neither Curace, nor Greue, nor longe , or round Targets of any weight, but " flieng weapons onelie as 7 Arrowes, " Dartes, " Stones either for hand, or fling. To this kind is referred the so armour of the Areilos , who hath his furniture like to the Macedonian , but something lighter. For hee carieth " a little flight Torgett, 13 and his Pike is much shorter , then the Macedonian Pike : which manner of arming seemeth a meane betwixt the light, or naked, and that which is properlie called heavie : as being lighter , then the heavie , and heavier , then the light : and that is the cause, that many place it amongst the

light.

The forces of Horse (which wee distinguished before from Chariotts) as being ordered in Troopes, are either " Cataphracts, or not Cataphracts. They are Cataphraeis, that cover theire owne, and theire horses bodies all over with armour. Of not Cataphracts, fome are Launciers, fome Acrobolists. Launciers are such as joyne with the enemy, and fight hand to hand with the Launce on horseback. Ofthese, some beare longe Targets, and are therevppon called Targetiers: Other fome Launces alone without Targets, who are properlie called 'S Launciers, and of some Xestophori. ' Acrobolists on horseback are such as fight a far of with flieng weapons. Of these, some vie darts, some bowes. They vie darts, whome wee call '7 Tarentines. Of Tarentines, there are two fortes; for some throw little * darts a farre of, and are termed Darters on horseback, but properlie Tarentines: others vie light darts, & 19 after they haue spent one, or two, close presently with the enemy like the Lanciers, which

weefpake of, and fight hand to hand. Thefe in common speech are named light horsemen. So that of Tarentines some are properly called Tarentines, whose manner is to darte a far of. Some light horsemen, who joyne, and fight hand to hand. 20 The horsemen that yse bowes are termed Archers on Horseback, and of some Scythians.

These then are the differences of such as are in the Campe, the kinds of Souldiers being in nomber nyne: Of footmen, armed, Targetiers, Light armed, arnaked : Ofhoriemen Lanciers, Darters, Archers, Cataphracts : And laftlie

Chariots, and Elephants.

Notes.

N this Chapter the kindes of Souldiers are distinguished according to theire seueral Larmes borne in fight. And therefore of foote some are called armed, because they beare heavy armes;other light-armed or naked, because they we are no defensive armes, other some Targetiers , because theire chief defence rested in a slight target, wherewith ther covered theire bodies. The horfe alfo have theire appellation, as theire armes are. And some are Cataphracts, because themselucs & horses were armed compleatly other Launciers , for that they vied a launce : other some Acrobolists , by reason they fought with flieng weapons a farre of . The first thoughts of a Prince , or State , that is refolwed to put an army into the field, ought to be to provide armes. Armes are the fecurity of theire own fouldiers, the terror of the ennemy, the affured ordinary meanes of victory. The antiquity of armes is all one with the beginning of warre. For when of auncient time mighty men puffed up with pride, and led by ambition, fought by violence to enlarge their empire, and to bring under Subjection their bordering neighboures, they were enforced to five to the invention of armes, without which noe victory could bee obterned. Since, armes have been taken up for defence also, necessity, the mother of artes, inventing ameanes to withftand ambition. As Antalcidas wel obiected to Agesilaus being wounded by the Thebans; you are well rewarded for your labour, quoth hee, fince you would needes teache the Thebans to fight, that had neither will, norskill so to doe. For the Thebans being put to necessity of defence grewe warlick through many invafions of the Lacedemonians, faith 2 Pluarchin A- 2 Plutarch. Whoe were the inventers of the several pieces of armour, and of the diners Film new Princaro. whose were true investoring any appears by the relation of Pliny in his natural beforebries history. This is certeyne, that the most warlick nations, and most wictorious have alwayes fought to have advantage of their enemies by advantage of armes. The end of armes is either to defend, or assault. Hence are armes divided into two kindes : Defensine, and Offensine. Defensine are those, which are worne to resist the force, and charge of the enemy. Of this fort are the head piece, gorget, curace, vambrace, gamtlets, tales, greves, and target. For whereas there are eleven partes in man, the woundes e Paric Para of any of which bring with the undoubted death (as some authors write) the braines, the two temples, the throate, the breast, the belly, the two muscles above the two elbowes, the other two about the knees, o the privy members pierced with a thrust: the headpiece ferveth for the defence of the braine, and temples, the gorget for the throate, the curace for the breast, the vambrace for the muscles of the armes. the tales for the privities & belly, the greves for the muscles about the knees, and the target for further assurance of the whole body, being moueable against all strokes. and profers of the assails. Offensue armes are such, as men endevour to wound, or kill withall : as flieng weapons of all kindes , arrowes, stones out of slings , or the hand. fwordes, pikes, partizans, iavelines, and the like. But as defence, and security of a

mans felf is more agreable to nature, then to hurt an enemy , so are the defensive armes a Plut in Pela preferred before the offensive, in that they bring safety to him, that beareth them, where as the other are imployed in annoing the enemy onely. The Poets fett foorth theire bravelt and valiantest men alwayes belt armed for defence. So Achilles in Homer. and Aneas in Virgil, are armed to point with armes wrought by Vulcan, to the end toremaine untowched amiddelt the stormes of theire enemies weapons. The Gracian Lawgivers punished that souldier, that in fight cast away his target : not him, that lost his (word or pike. Plutarch writeth, that at fuch time as Epaminondas affaulted Spar. ta (the most warlicke City of Greece) there was in the City a Spartan named I (adas, who was the sonne of Phabidas, hee that surprised the Castle of Thebes called Cadmaa, and thereby stirred up the warre between the Thebans, and Lacedamonians, & ruinated the principality of the Lacedamonians in Greece. This man being in the flower of his age, and personable, and large of lymmes, ranne foorth of his howse all naked, his body annointed with oyle, without apparaile or armes, except a (word in one hand, & a Lavelin in the other; and breaking through the throng of those, that fought on his side, came to handes with the enemy, and overthrowing some, and killing other some, continued the fight, till the enemy was repulsed, and at last returned into the City without wounde. The chief magistrate understanding hereof rewarded him with a Crowne for his valor. but yet fined him at a hundred drachmes, for that he durst weter to fight without armes . Drachma hall defensive; judging it a mat almost impossible, that a naked man should escape with life that is about to

Septing against the armea andes of so many valiant enemies, as the Thebans were. In Poll x.lib.ga In armes was required, that they should bee strong, that they should bee fitte, that cape and they should bee comely; strong to protect, or annoy, fitt to fette close to the body and bee manageable, comely to grace him, that beareth them. That defensive armes ought to be frong, may bee shewed by the end of armes; which is to faue harmle fe against arrowes, daries, and other offensive armes of the enemy. If they faile of this end, they are of noe vie; it being better to be unarmed, then cary armes, that will not defend. Without armes you have the body free, and at liberty: carieng armes, though never lo light . they must bee a cumber to you, and some what hinder the motion of your body. Armes therefore ought to bee sufficient to resist the weapons of the enemy. The inconvenience of defective and weake armes is well noted by Vegetius. From the building of the C1- e Vegetins lib. ty of Rome, faith hee, till the time of the Emperour Gratian, the foote armed applied and fall theirebodies with Cataphractes, and head-pieces. But when feld exercise amount of the through negligence. and flouth was given over, armour began to growe hea- free we flustles vy because it was sieldome put on. They made suite therefore to the Empe- what that are rour first that they might leave of their Cataphractes, then, their headpieces. So our fouldiers encountring with the Gothes, were oftentimes wholy defeated and flaine by the multitude of their earrowes. And a litle after : fo cometh it to passe, faith he, that they, whoe without armes, are exposed in the battaile to woundes, thinke not so much of fight, as of running away. Yet must wee not imagine, that those souldiers sought in theire ordinary apparaile onely: I encline rather to the opinion of Stewechius, whoe holdeth, that they tooke themselves to a sewethin in theire military coates, called in Notitia vtraque, Thoracomachi : and to theire e Noma vra Targets . This Thoracomachus was a garment invented long before Gratians time, and Occident, in fina worne under the armours of the fouldiers, and was a kind of felt, but being noe profe against arrowes, and theire targets not sufficient to cover theire heads, and whole todies from arrowes . They were obnoxius to the (hotte of the Gothes , and receyved tho) overthrowes Vegetius (beaketh of.

The matter whereof strong armes were made, I find to bee divers. Some were forged of e Samuel canor Steele : as the armour of Goliath, and the head-piece of K. Saul. For it is not there fette downe, what his curace was of, Notwithstanding it is likely, it was of the same matter, of which his headpiece was made. Whe I fay these armours were of Steele, I follow therin the indgement of Tremelius and Innius, whoe fo translate it; & with them also agreeth Va tablus. For the old traslation hath, that they were of brasse: I have not elsewhere read of feele armour. And it may bee, that the old translation had an everyon the vage of auncient time wherin the matter of armes was principally of Bratie. Homer reporteth, that WHomer Iliad. the armour of Diomedes was of braffe: & Paufanias, that all the Heroes (that is the b Padin, in la- Anneset worthies about the time of the siege of Troy) had their armour of Brasse. Alcaus D Production in the America working about tractime of faith, therefore is a more of brafe, as his head-achter agree in deferibing his armory faith, therefore is a more were of brafe, as his head-for the pieces his greves, his Targets, only his Curaces were of limen. P aufantus reported at Paulanda. To that the fword of Memnon was of brafe, or the head of the fleare of Achilles, or Pifane Livy lib 1, 27 ders axe, & the head of Meriones his shafie. Servius Tullius in festing the City of Rome, appointed the chiefest & richest Citizens to arme themselves with headpieces, greves, Cuf Neso in Rep. race, & buckler alof braffe. The Largets of the Lacedemonians were of braffe a fo by the in-1 accolumn 685 Ritution of Lycurgus. So that brasse was much vied in armes in the oldest times. And where Alcans Speaketh of his linen Curace, I find that Curaces of linen were inrequest also eve Homer a Had in those times. Homer affirmeth that & Aiax Oileus had a linen Curace. h But afterward Ih Acadasa nob phierates the Athenian held them fo good that he gave them to his footdiers to Weare, in xworth Cro fleed of their volad armes made of iron, to braffe And Xenophon armeth Abradates the Weare. K. of Sufe with a linen armour, adding that it was the manner of that Country And Pluk Plesarch, in tarch fitth that & Alex, the great after he had gotten the victory against Darius in Cilicia, found emogest the spoile a line armour, which be afterward veed in the bassailes he fought. Patricius is so confident in the strength of a linen armour of his o wine device, that he doubteth not to preferre it before well tempered iron. What his invention is, he keepeth to himfelf for feare the Turk (hould have intelligence of tt, & Co Christianity bee driven to an exigene. Almen knowe, that the temper of an iron armour may be such, as wil refift the violence of a mufket flotte, and that at a neere diflance. Neither is this temper the invention of our dages. The like hath been of auncient time. "Plutarch Writeth, that Demetrius be freque Rhodes, was prefinted with two iro armours brought out of Cyprus, either of the weight of 40 pownds. The maker of them, whose name was Zoilus, desirous to hewe their strength, firmeneffe caufed one to be fet up at the distaunce of 26. pices, and bee frotte at with an arrowe discharged out of a Catapult. The armour hitte remayned unpierced, nothing appearing vpo it, but the rasing, as it were, of a peknife. And that a Catapule is of more violece, the amifices the effects thereof declared in history make plaine Whether a linen coste be of that re liftance, or not , bath not been yet tried. Nay the contrary hath been tried. For Alexander at a fiege of a City of the Mallians (as I take it) was fore wounded with an Indian arrowe through an armour of linen. Whose armour I would indge to have beene not of the flenderell, and weakest, but of the furelt kinde. Yet is it not to bee passed over that lustus Lipfius alleageth out of Nicetas Choniates concerning a linen armour of Conradus of Monand 156 11 Ferrate: "Conradus, faith hee, fought then with out a target, and in feede of a Curace hee had on a woven weed made of flaxe, foked in fowre wine, well falted, and often-folded. It was fo fure against outward force of strokes, being fulled with wine, and falte, that it could not bee pierced with iron or steele. This invention our age hath not beene acquainted with; Whether it bee the same, that Patricius aimethat, let experience iudge. That antiquity practifed it in wooll, Pliny Witnesfeth , who writing of wooll and woollen garments faith : Of wooll wrought and pressed together by it selfe

alone (I think as our hatters worke felt) a garment is made; & if you worke it with vineger, it cannot beeftrooke through with a fword. This wooll fo wrought, he calleth coactam : whichin Cafar, as I take it , is called Subcoactum. Cafars wordes found thus : " Pompey , although hee had noe purpose to hinder a Centre bell, Cæfars workes with his whole army; nor yet to hazard battaile, fent not withflanding archers and flingers, of whome hee had great store, to convenient places; and by them many of our fouldiers were wounded; & a generall feare of arrowes fell vpon them; and well nigh our whole campe made themselues coates and cases of either felts (subcoactis) or quilts, or leather, thereby to avoide the daunger of flieng weapons. But wee will leaue Patricius to his fancy, and adde an example out of Xenophon of armes veed by the Chalybes, a nation inhabiting the Chaldean Mounteines. b The Chalybes, faith hee, were the most vali- ped Cr. 14. 318 ant nation, that the Gracians paffed through, & fuch as durft come to handes a Thee was to their hellies and with them. They yied linen Curaces reaching downe to their bellies, and, in fleed of winges, they had roapes thick woond, and faftened together. The strength of rospes thick wound together must, noe question; bee great. Cafar bower confirmethit. Emongest other defences, which his fouldiers deuised for assurance of a Turret against the Engins of the Marsilians, hee Saith. They made foure flo- civil. lib. ries of Cables fitting the length of the walles of the Turret, and foure foote broade, and fastened them hanging downeward to the beames sticking out of the Turret on those t' ee parts, which lay toward the enemy; which kinde of covering alone, they ad in other places made triall, could bee forced or Brooken through by noe missiue weapon, or Engine whatsoever. This, I have beard, was the device of the Spaniards in 88. to defend their ships against the fury of our artillery. Whereof I may inferre, that if Cables combined together bec of fuch asfurance against Engines , roapes thick layde and fastened together must bee a strong defence against a sword. To end with the matter, whereof armes were made , I finde likewife, that the Macrones ved, in steede of Curaces, coates made of haire. And thus much & Xenop. de est of the matter of Armes. Besides, armes should be sitt for the body, and for the strength of him, that beares them. When David was to fight against Goliath, K. Saul, seeing him without armour, caused et same 174. his owne head-piece & curace to be put upon him. David affayed to marche, but finding thefe armes to heavy, was faine to leave them, and to goe against Goliath unarmed. Saul was the tallest man of his nation, David but meane of stature, & to put armour propor- top.o.v.s tioned to a large body upon him, that is a great way lesse of members is as much, as to de-

liver him bound to his enemy . Xenophon emongest other causes, why the Lacedamonian bor se were beaten by the Thebans at the Leuctrian battaile, alleageth this for a maine cause. That the richest men kept & furnished out horses, & as often as musters & xnoph hist. were take, the man, that was to ferue, shewed himself, & answered to his name, -& receiving horse & armes, such, as were given him, was so led against the enemy. They were beaten, faith Xenopho, receiving horse & armes at al adventure, not knowing, whether they were fitt for fervice, or not. Whether armes be to bigge or to litte, they burt alike. To litle, they pinche the bearer, & make him not able to endure labour; becaufeheisin paine: To great, by theire flap and loofehanging about the body, they hinder the motion of those parces, that are to be imployed in fight. Being fitte they differ little from ordimary apparaile, except it be in weight: which inconvenience is ea fily remedied by v le, and practife. Tuly Writeth of the Roman Souldier , that his continuall ve of armes was fuch, howeve Total that hee noe more reconed his target, fword, head-piece, & other armes to bee burdenous vnto him, the his shoulders, armes, & hads, & said that armes were

part of a fouldiers body, being fo fitly made & borne, that need requiring, they could throw down their burdens, & vie their ready armes in fight, as the members of their bodies. Tet must care be had, that theire weight exceed not the strength of him, that beareth them. For whoe wil be able to continew long in fight, that beside the labour of fight, is charged with a burden more, then he can well bear? The proofe is plain in a deline up 12 beafts, which how firong foever they be, faint & tire under to much weight. . Alian ofter, speaking of the length of pikes, giveth this rule, that they bee noe longer then a man may well vie, & wield in handling. To much length maketh them to heavy, & wnfirte to be managed wher by they reft unprofitable to offend the enemy. In this property of fitneffe those armes & weapons are compreheded, which are of most a fein the field. For as in all other arees thinges of greatest effect are alwayes praferred, fo is it in warr. There is great advantage in armes, which is the cause that one kinde hath been preferred before an other. Emilius Probus giveth anotable testimony of skill in matters of warre to Inhih Amil poli is crates, of phone he writes thus: * I phicrates the Athenian invented many things labera buil. The the built warr. Hee chaunged the armes of the foote: For whereas before they vied great targets, short pikes, & litle swordes, he gaue them litle round targets, called Pelte, that they might be fitter for motions, & encounters, and doubled the fife of their pikes, & made their fwordes longer. Hee likewife chaunged theire Curaces, & in stede of iron, & brasse, brought in other wrought of linen, wher by he made them nimbler at all affayes. For leffening the weight, hee brought to passe, that they as much covered the body, and yet were very light, and fitte for vie. Of these rargets, which Iphicrates invented, the names of Peltati (Targetiers) forong : of whom wee shall heare more in this chapter. And yet wee must not heereof coclude that Iphicrates chaunged all the armed foote into Targetiers; (for the C. Renopin had. Athenians had still their armed, notwith sidding this invention of Targetiers, as 'Xeno-Giocal as 18 P phon restliffsth) but where as the Athenians before had noe targetiers of theire owne people, (as I consecture) Iphicrates brought in this kind of armour : and fo of the armed hee made some sargetiers, be left the rest to the armes, they bore before indging it more profia man in this made joine and give in greatiers, & Armed of their owne people, then armed alone. A hilo-power is in its table to have both Targetiers, & Armed of their owne people, then armed alone. A hilo-town is 1 Par gamen also the brune Albam General It sught bis Country-men in seed of longer targets companied by a part of the brune Albam General It sught bis Country-men in seed of longer targets. & lavelines to take around target (called Aspis) & a pike after the Macedonian maner. and to arme themselves with head-pieces, Curates, & greves, and to settle themselves to a flaid, and firme kind of fight, in lieu of concur fory, and pelsafticall encounters, and by this meanes brought the to be valiant, & brave fouldiers, & victorious in their fights against a Polybil ant their enemies. Polyb. discoursing of the Gaulois & Spanish swords of aunciet time, faith, thus the Gaules fword was fo fashioned, that it served onely to strike with, and but for one stroke: after which it so bowed both in length & breadth, that vnlesse the point were rested vpon the grownd, & the blade rightened, you could not strike with it the second time. But the spanish sword was both for thrust & stroke, having a strong point, & a stiffe & sure edge to strike withal on either fide by reason of the firmnesse of the blade. This difference the Romas espied. and being excellent imitators of all thinges, which were best for vse (though they were enemies from whom they tooke them, made choice of the ipanish Estien in mac. fworde, & after Annibals time caufed their foote to ofe noe other! Suidas witneffeth it: The Spaniards, faith he, in forme of swordes farre excell all other nations. For their fwords both haue a strong point, and an edge on either side, that entreth deep in striking. Which caused the Romans, to lay down their owne countrey fwordes, and take the spanish forme from them, that followed Anniball. The forme they took, but the goodnesse of the mettall, & exactnesse of the temper

they could never atteine vnto. The Romans then relected the french foordes, as of Imali ofe, or imitated the spanish, because they were fitt for service Xenophon de scribing the nations, which followed Crafus against Cyrus, theire manner of arming and order in battaile, tell th of the Egyptians, that they were armed with targets reaching downe to a Nenoth Cyt. theire foose, with long pikes, & with swordes, which they call Copides, & for order, flood to Copides were theire foote, with long pitets, or with footest, sometimen, they are completely to the control of the standard of the footest with a single standard of the footest with the standard of the footest with the footest of the single standard of the footest of the standard of the footest of the standard of the footest of the standard of t are greater then is fitte for action, & for fight, & being raunged a hundred deep, it is manifejt, they will hinder one another in fight ,except a fewe . Annibal, after his first wictory 5 Fort 115 to against the Romas, armed his Africans (his best & most trusty sculdiers) with the armour 125 703 C of the flaine Romans, because he found it better, then his owne & Pyri hus veed not onely the armour but the Italian fouldiers alford raunged them a cohort of a Merarcha alter natively one by another And Mithridates after his experience in his first warrs with the e Phonachin La Romans, that a well in arming, as in manner of fight, they excelled all other nations, left out the arming of his owne Country, & brought in the Roman foord, & target, & reduced all as neere, as hee could wato their discipline. So then firength or fitnesse are required in armes. To them is comeline fle adjounced. The field of Achilles how was it bewtified with pictures & Stories by Vulcane and that of Aneas, comming out of the fame forge, how glorious was it? To fay nothing of the brane armes of Hector, Agamemnon, Diomedes, Glancus, Turnus, Mezentius, er other. Alexanders armes were very rich. He had a & Plus in Alex Sicilian Caffock gyrded upon a double linen Curace the spoile of Islos; his headpiece was of iron lining like pure filver, the work of Theophilus; about his necks was an iron gorget befette with precious stones. A fword liee had of wonderful temper & lightnesse, the gift of the Citiean King, Hee wore a baudricke of prowder worke, then the rest of his armour, the work of the elder E. licon, & the honour of the Rhodian City. And Cyrus the elder, that lined before exemph Cyrop Alex time, had armes provided by his Grandfather Aftyages both very faire, & fitte for 16 1. his body. Abradates the Susian king had his headpiece of gold, & vambraces, and fxmorh coron bracelets about his wrests, & a purple Coate, and a plume of hyacinthine feathers. Neither did this bravery rest emongest the Princes alone. The souldiers of Cyrus swere furnished with the same armes, that Cyrus himselfe bore, with scarlet g xerop. Cyrop coates, Curaces of braffe, braffe helmets, white plumes, fwordes, & euery one a darte. They differed onely in this that their armes were guilded, Cyrus his armes shined, & had a reflexion, as it were, a looking glasse. And halexan, hea- h cortice lib a ring of the riche armour, the Indians bore, to make his owne fouldiers equall silver-targetters with the in bravery, whom they exceeded in valor, caused theire targets to be plated over with filver (whereof they were after called Arguraspides) & their horse-bittes to be made of gold, & adorned theire Curaces, some with filver, other with gold. This might freme pompe & Superfluity in a yong King, were it not that the like was done by other the greatest Generals of auncient times. Cefar may serue for an Casae. example for al, whose souldiers how gallant and braue they were, Plut testifieth in his life. The Romans otherwise neich addicted to frugality, allowed yet liberally ornaments to the bonouring of worths foul diers rewarding them for their fervice, with rich trappings for & Plinius killor. bor (es, chaines of gold, bracelets, crownes of gold & other honors: which they were not on- volyb lib sizes ly in the field, but at al other folemnities & meetings in the City. And for every common ",C fouldier they provided plumes of purple, or blacke fethers, every one of a cubit long. of which plumes Polyb. giveth this indgement : Pluimes, faith hee, being added to the rest of the armour maketh a souldier seeme twice as great, as hee is; and beside the faire shewe, they make, they are terrible to the enemy in fight. I man may seeme as light, as a fether, that discourseth of plumes, & fetcheth ornament from fethers.

Tet may I truely affirme, that the vie of plumes is very auncient, & that the Romans bo. a Hered U.s. 34 rowed st from the Gracians, and the Gracians from the Carians, whoc were the first inb Polyen. 1.7 in wenters of them. As much is tellified by Polyenus: He faith that Tementhes K of Legypt pamench. 1. going to the eracle of Ammon about the flate of his kingdome, had anniver to beware or take heed of Cockes. Pfammetichus, that fought the kingdom, had Pigretes a Carian to one of his familier friends & learning of him, that the Carrans were the first that inveted Plumes to their helmers, & eve then continued the v fe of them, & contecturing that the meaning of the Oracle was not of Cockes, but of men, that, wearing some ornament on their heads, had a resemblance of Cockes, waged a multitude of Carians against Temen. thes, by whose help he overthrew Tementhes in battaile, or possessed himself of the crown of Egypt. Now for the true end of fouldiers ornaments I wil onely adde one example. Philovemen the Achean in reforming the abuses crept into the Achean State with great Phin Philon iudgement (I will we the wordes of Plutarch,) reduced to order theire delica-& idle defires, wherewith they had of long time been possessed, delighting in excesse of apparaile, in riche dyes of coverlets, & carpets, striving one with another, whoe should be most sumptuous in bankets & feastings. But by litle & litle beginning to turne theire thoughts from vnnecessary expences to a loue of comeline sie in thinges, that were profitable & nonest, he brought them at last to leave the expences of the body, & to shew themselves gallant, & brave, in foldierly, & warlick furniture. A ma might therfore have feene the shoppes full of filver and golden cuppes cutte a pieces, of curaces guilded with gold, of filvered targets, and bittes; the places of exercise fraught with colts then first backed for fervice, & with yong gallars managing their armes; & in the handes of women head-pieces adorned with divers-coloured trymmings, horlemens coates, and fouldiers cloakes curioufly embellished with flowers. For the very fight of these things both encreaseth Spirit, & stirreth vp desire, & engendreth an undaunted boldnesse, and alacrity to daungers. In other she wes to much lavashing bringeth in effeminatenesse, & worketh a remissenesse of minde, the fence with vaine pleasings and ticklings subverting, as it were, the vigor and force of the vnderstanding. But in these the Spirits are much heighened, and exalted. As Homer bringeth in Achilles at the very fight of his newe armour ravished and inflamed with a defire to bee doing with it. Thus garnishing the youth hee exercifed & hardened them to laboure and warlicke motions, making them thereby to undergoe with defire whatfoever they were commaun. ded. So farre Plutarch. Out of whose opinion it followeth, that Bravery of armes raifeth the spirits, stirreth up de sire to fight, maketh the souldier bold, and cherefull to perills, and as Polybius holdeth pleafeth the fight, encreafeth stature in showe, and is a terror to the enemy. Tet ought there therein a meane to be fought, & rather an affuraunce followed then vaine gazing and oftentation. Antiochus being to fight with the Romans gathered a mighty army together. And seing them glitter with gold and silver, and with all excesse of bravery, as the manner of the Asiaticall people was, tooke so great delight therein himself, that calling Anniball unto him, hee shewed his troopes, and demaunded, if hee thought not that Army Sufficient for the Romans: yes quoth Anniball, though they were the most coverous people in the world. Anniball with good reasor derided the vaine shewe fitter for a mask, then a field which hee assured himselfe would fall into the Romans handes to bee Spoiled. Mithridates committed the like errour in his first warre against the Romans. For as Sophisters are wont for the most parte, faith & Plutarch, hee was in the beginning vaine glorious, and conceited by prowde warring against the Romans with weake forces, but yet sette out with pompe, and

bravery to the outward view: But being foiled to his shame, and weighing in his minde he must take vp fecond armes against them, he sought to reduce his forces to a true kinde of arming. & fitte for the fervice, he intended. Rejecting therefore multitudes, and confused threatnings of barbarians, and furnitures of armes guilded, and fette with precious stones, as being a pray for the conqueror, and noe affurance for him, that we ares them, hee brought in the Romaniwords, and caused long heavy targets to bee framed, and chose horses, richer that were already managed, and made fitte for fervice, then those, that w ne richly trapped and garnished. So farre Piutarch. The fouldiers care there. fore ought to bee first for surenesse, then for fitnesse, lastly for comelinesse and ornament in armes. If the two first fail, the last availeth litle, and will proverather a burden, then a defence. And thus much of armes in generall : Nowe followe the particulers of armes, as they are in Alian.

Preparacions absolutely necessary for warre The preparacions, whereof Elian Beaketh, are fo necessary, that without them noe warre can be made or continewed. For purpoling to fight by water you must have (hippes, by land, you must have foote, and borfe. For which if you prouide noe armes, you put them into the field not to fight, but to bee flaughtered. The manner of fight in the field is not of one fort. Some time celerity is needfull, to attempt or prevent the enemy: sometime a slowe and sure proceeding, lest with to much halt, wee be overtaken our selves Therefore the divers arming of souldiers, ought to be fuch, that they may ferue for all occasions, and vies, and that wee may employ alwayes to fervice fuch, as by real of theire armour, shall most fitte our purpose. Wherefore Iphicrates fittly resemble a an army to a man's body : calling the heavy-armed the apharet in Pe body, the light-armed the hands, the horfe the feete, and the Generall the londs Polyen L head: and as, if any of the rest were wanting, the army (hould bee lame, and halted, fo Leo ca 20 \$. 102

Wohich give life and foode, as is were, to the reft: and to which the reft being diffre fed, retire. The light armed are the handes, which uppon every occasion being put out to

grype and take hold upon the enemy, are drawen in againe, when it is expedient. The

horse, a fret moue with celerity; the Generall is the head, hat ruleth, that watcheth,

that careth for the reft, dire ting the times of theire motion, and of their reft. So then the

Pobole force of the field confifteth of horse, and foote. And the foote are reparted into three

if there want a Generall, it is unprofitable, and of noe ve. The heavy armed are the body.

kindes. Armed, Targetiers and light-armed] Thefe feuerall kindes of fouldiers were of dby a'l the Grains of perially by the Athenians, Lacedamonians, and Thebans, whoe b Thoryd liber. Were the mightie A. and the most warlick people of Greece. Alexander had them in his army against Darius. "When Alexander faith Arrian came to the place where a Arma E. a. s. Cyrus (with whom Xenophon was) encamped, and fawe the streights of Cilicia poff. ffed with a strong gard, hee left Parmenio with the heavy-armed, to flay behind, him elfe about the first watch taking with him the Hypaspistes, archiers and Agrians, marched on toward the streights in the night. The armed were left with Parmenion, himfelfe tooke with him the Hypaspists (targetiers) archers, and Agrians : Thefe Agrians were darters on foote. The like is to be found a Arriant 1.14 in divers other places of Arrian. Pyrrhus allfo, that followed the Micedonian man- & Plonarch. in ner in arming his fouldiers , had the same division of armes . I And Philip King of Print liazze ner in arming his fouldters, nat the same accepton to minute default the Ro- Appin in 59-Macedony fonne of Demetrius. 8 And Antiochus, that Warred against the Ro- Appin in 59-Lator, D.

The armed beare the heaviest furniture This heavy furniture appeareth not by description of the armes , which Alian givesh them : which are a Macedonian

200.1735.

· Acuilin Pro. target, and a pike onely. . Iphicrates, besides the target (lesse, then the Macedonian but to vita Irha target) which he armed his Targetter with all, gaue him both a pike & a linen curace : So that if the Macedonian armed bore not more then a Target and a pike, his armes should be lighter, then Iphicrases his Targetier, who had a target, a pike, & alinen Curace. It hath been the mainer of some Nations to beare targets alone without Curaces So did the a Xenoch Cyr. Egyptians in a Xenophon: So the Gaules in b Paulanias. There are againe, that have born hib 71-3 hountain the Curaces without Targets: as Phoreys the Phrygian in Homer: of which kinde of Curace, because it some what resembleth the Curaces of our time , I will reherse the descriptio out e Paulan in Pho of Paulanias. There lay upon the aulter, faith hee, a brafen Curace, the forme whereof agreeth not with the vie of our times, but of old it was common. It had two plates of braffe, one fitte for the breft and the belly, the other to cover the backe. That before was called gyalon (the hollow part) that behynd Pro-(egon (because it was added to the other.) They were fastened together with buttons behinde. It feemeth to bee a fufficient defence for a mans body without a Target. Therefore Homer maketh Phoreys the Phrygian to fight without a target, because he wore such a Curace. But yet, that it was not the manner of the Macedonian armed to beare pike & target alone, may be plaine many wayes. First & Polyen gineth them headpieces, or greues, and targets, and pikes. Then doubt I not but they were as well armed as the rest of the Gracians, within whose Panoplia Curaces were e Ad Ephel. cap comprehended as S. Paule tellifieth rekoning as parcels of the Panoplia, a Curace, a target of a headpiece. Now that the Macedonians had also their Panoplia full or compleate arming) is to be found in Diod. Siculus Where also Choragus the Macedonian (whom Decreius calleth Horatas) is faid in the fight betwixt him & Dioxippus to be fully ar-E teo cao 65 med. Leo describeth the Panoplia of the Macedonians after this manner. Alexander, (4 th hee, armed his Macedonians with a large target, a fword, a head piece, greues, vambraces, and a long pike. Philopemen (as is before reherfed) reducing his Mchaans to the Macedonian arming, bringeth them to Curaces, head rieces & greues. The h Plut in Timo! names allo that are attributed to the Armed, hew, they were otherwife armed. Plutarch calleth them Pephragmenos, & Cataphractos as having their cbodies all armed & oppof th Negati 1 10.00 them to Euroni light or naked: And by Vegetius, the armour it felf is named at aphraita, k Kenoph. Cr. because the whole body is covered there with k Kenophon termeth them Thorscophoros b.a-I Viget it a cap ring Curaces.) Thefe are the firength of the battaire, and a firong wall or rather a fortreffe m Died siculable of the field, to whom the light-armed, and m the horse also retire in time of need. As long as they fland the field is not loft; being defeated the reft can make noe refultance. Being armed with a fingle target without other armes , they incur the same daunger, that the Romans in Gratians time did, whoe for want of Curaces were entirrly destroyed with the arrowes of the Cothes. Wherefore, it feemeth, Alian heer pointeth at the principall armes onely of the armed Macedonian, For after ward discoursing of the light-armed, he faith, they neither had Curace, nor greue, nor long or round target: implieng thereby, that the armed had them all. n Livy to 2.243 So " Livy, comparing the armes of the Romans and Macedonians together, faith noe more. then that the Macedonians were armed with a round target and a pike, the Romans with o Livy 10 1.17 along target, and a darte, called Pilum; when himfelf had before declared, they had headpieces, Curaces, and grenes. Vfing targets after the Macedonian manner] Targets Were of two fortes. round targets, and long targets. Long targets were called Thureo, and were in forme like a dwore from whence they had theire name. For Thura fignifieth a doore. Thefe the Romans, and Gaules vied, abeit (me What different in forme. The P round had eight full handfulls in diameter, as ilian faith, and were termed Afrides Long targets were much distiked by the Gracians. Cyris in Xenophon derideth them .

es both hindering she fight, & being unwieldy: * and Philopamen chaunged them into . Posent ein round targets following the Macedonian manner. The targets of Philopame P paulinias Pattern 1, 2 terms to Argolican targets; It may be because they were single view by the Argines in the betation when battaile betweent Acrifius Danaes father, and Pratus, who contended about the king - and dome of Argos. Of what matter these targets were, is a quastion. Some take them to have been made of carse other matter, & covered over with brafe: & that otherwise the souldier should not have been able to have born them for the weight. I deny not, that in auncient time some targets were plated with braffe: the rather, because I find, that Alexander to match the Indian . pompe covered the targets of his fouldiers with plates of filver. But, that the ordinary Macedonian target was fo covered, I deny de Alian after calleth them chalce (brafen) a cap 12 not epichalce (covered with brasse.) Polyb. saith, that the Macedonians in the time of the bibliogist. K. Philip the some of Demetrius were called Chalcaspides (Brasen targetiers) not epichalkitai, by which name, as Hefychius hath, they were called, that had their targets cowered with bra Te. So like wife in the time of Perfeus. And the Megapolitans, whoe imi folin in Acmillion tased the Macedonian manner of arming, are termed Chalcaspides in Polybins: I have & Polybins 2 18 3333016. the wed that the Lacedemonians had brasen targets by the institution of Lycurgus & that, h 2332 Live. in the time of the Heroes almost all ermour was made of braffe. The targets of the Lacede - Paulan in Baomonians that were fitne at the battaile of Leuctra were braffe, and to bee feene in the time view see of Pausanius; and the brasen target tof Parrhus, Which he left at Argos, being there staine, timber 1 Was kept in the temple of Cores. As for the weight, it is not fo great but it may become light enough by wfe, and exercit wee fee iron targets in v fe at this day, and not hard to be borne. And albeit the weight bee not for every mans strength, yet since it hath beene, and is, the manner to make choice of fouldiers, and to fitte them With armes according to the ability of their bodies, I fee noe reason, but the stronger fort might Well bear them. Another fort of targets there was which differed from the Macedonian not fo much in forme of roundneffe, as in matter, and manner of carieng. They were made of wicker, and borne in the left hand as our bucklers, which wee veed not long fince; and fome covered over with hides fome not. Ixmorade xp. m Xenophon faith that Cyrus the elder armed the Persians with these Wicker targets: or reko m Kenoph Cr. ning up the nations, through whose Countries the Gracians passed in their returne out of Perfin, & describing their armes," reporteth that the Chalybes, Laochi, & Phasians had targets a xenopale xee. of this kinde. Now, that they were borne in the left hand, is clear by the same Xenoph. . Hee ox xenoph cyre. writeth thus of the fight betweet Cyrus & Crafus: The Egyptians & Persians encoun. tring together, the fight was hard & sharpe: & the Egyptians aswel in number as in armes, had the advantage. For they fought with stiffe, long pikes, & theire large targets better covered their bodies, then Curaces, or wicker targets, and being borne on their shoulders availed to joint thrusting foreward. Serring therefore their targets close, they advaunced, & ranne on. The Persians were not able to endure the shock, by reason they bore theire wicker targets at the armes end, but retiring by litle, & litle, & giving, & taking blowes, they mainteined the fight till they came to the Engins So farre Xenophon. Out of which words a man may plainely understand the manner of bearing these wicker targets, which by reafon of lightnesse might easily bee held out at armes end. And as the Egyptian tar-

get , which reached downe to the foote , must needes bee heavy , and therefore had

seed of the houlder to support it , so was it with the brasen targets of the Macedonians,

Which were also weighty , by reasonof the matter , they were made of. The sethere fore

Were like wife caried on the shoulder. Plusarch witnesseld it in the life of Amilius,

And the same Plutarch rehear feth that Cleomenes the King of Sparta taught his Lace-

demonians, in seede of a speare, to vee a pike with hoth handes, and to beare theire

targets upon the ftrappe not by the handle. The wordes are obfaire, or need light, which Il extons, un- I will gine as (bortly, as I can. I find three wordes emongest the Gracians, all perteyning to dia nigraus, agarget They are those Telamon, ochane, or ochanon, and porpax. Telamon in this Cince (for it figuifieth otherwife a band is by all confessed to bee the broade strappe , which & fastened to the handle of the target & holdeth the target being caft about the necke, unto she back of Ochane, or porpax is some variance. " Suidas faith that Ochanon is to a dama + bride. The hold of the target b Hefjohins calleth it the Porpax of the target, & the band, Jane Of Porpax Helychins faith it is the handle of the target, of taketh Porpe in the fame fence, making it the thing bearing up the targett into which the hand and arme to the elbow is thrust. d Saidas faith, Porpax is it, that they hold the target by; which is called ochanes: & againe, that some take it for the band of the target; other fome for the middel iron that goeth through the target, on which the fouldier taketh hold. So that both He fychius, & Suidas agree, that Ochanon & Porpan are sometime alone, and signify the handle of the Target. In Which fence Herodotus & Paufinias take Ochanon alfo. Hefychius further interpreteth Toolson in Ele it for the band of the sarget (Diopus) which signification better agreet b with the meaning of Plutarch, who maketh an apparant difference betwixt the, reporting that Cleomenes taught the Lacedemonians to cary their targets, by the Ochane, not by the Porpax, When he faith by the Ochane, bee measeth by the strappe, by which being fastened about the necke, the target is thrown ever to the back, or resteth upon the left shoulder. That, which I say, will bester appeare if we marke, what the Lacedemonians did before & what Cleomenes advifeth them unto. Before they caried a speare in the right hand, and a target by the handle in the left, fothat both their hands were ful. The speare was not able to match the enemies pike Pleasechia vi (for a Cleomenes had often so doe with the Macedonians & Achaans, whoe both vfed pikes) or pikes, the Lacedemonians could not wield, with one hand, So then, to give them liberty of both bands, he counselled the to cary their targets at theire backs by the strappe or Ochane (which was the Macedonian manner) and not to hold them any mere by the Porpax or handle; and so to free their left hand to apply both to the menaging of a pike. This I take to be the direct meaning of Plutarch: Cleomenes then per waded them to leave theire (peares, & take pikes. And left the target in the left hand might proue an impediment to the vie of apike, hee thought best they (hould cary them at their backe by the Ochane. To cary them then by the strappe at the backe is to give free vie to the left hand, without which a pike, specially a long pike, such as Cleomenes advised them unto, cannot be wielded : as experience will teache any man , that list to make triall.

4 Andlong pikes. Pikes for the most parte have been called by two names by the Gracians; Doru, and Satissa. Atlan namesh them Dorata both here is having and in other places of this book. Memophon, speaking of the meapons of the Chaered the places of this book. Memophon, speaking of the meapons of the Chaered the places of the Chaered the places of the Chaered the place of the chaered the place of the chaered the place of the place of the place of the state of the comments per fivaded the Lacedemonians to chaunge theire Dorata (speares). The like reconsticts the of Philopamen, who chaunged the flowers of the Achaens into pikes, calling the speares, Dorata, the pikes, Satissas. And even in this place Elian termeth them not Dorata simply, but with addition of Perimekedera, of along sign. And after describing the amost of the Peltastes bee saish theire speares (Dorata) were much shorter then the pikes (Satissas) of the achaens of the Maecedomian is termed Satissas, the pikes (Satissas) of the achaens of the Maecedomian is termed Satissas, the spikes (Satissas) of the achaens of the metime Doru, some other word is added to avoid the ordinary signification of Doru, as the spikes alled Doru of the matter. For Doru stimum, the called Doru of the matter. For Doru stimus the called Doru of the matter. For Doru stimus the called Doru of the matter.

by consequent the wood, apike is made of. But, as I faid, the Macedonian pike is properly called Sariffa. What the length of this pike was , Elian will shewe in the 14. Chapter. And for the wood it was made of , I take it to have beene Corneil. For I find that the Macedonian horsemans staffe was of that wood. 2 Arrian confirmeth a Arrian Shr. it faieng : And nowe the Macedonians had the better both by reason of the 15.8 firength of theire bodies, and experience in warre, and also because they fought with Corneil launces against Iavelins. For I affent not to the translater of Arrian whoe turneth Xystois Crancinois into Corneil dartes , whereit should bee Corneil launces. For in that place Alexander is reported to have fought with a launce, and to have broken it in fight, and to have asked another of dretes, one of the Quiries of his fiable, whoe had also broke his, and fought with the truncheon, and to have taken the launce of Divarates the Corinthian, and returned prefently to the fight , and therewith overthrowne Mithridates the fonne in lawe of D4. riss. Besides it is faid, that the Macedonians had the advantage in weapons: Take it thus, that they fought with dartes against lavelins , what advantage had they? especially being come to the shock : Dartes are vied a farre of. At hand noe man figh. teth with them , valeffe hee have noe other weapon. I thinke noe man will deny , but that a lavelin in closing is more advantagious then a darte. And that Xvston fignifieth a launce Alian himselfe testisieth in this Chapter calling the launciers Doratophori, or Xystophori. The Macedonian then had his horsemans test Doracopitois, or Agreement to bee a found and a fast wood. If b Pliny affirmeth to bee a found and a fast wood. If b Pliny affirmeth to bee a found and a fast wood. his launce: aman may bably coniecture, his pike also, which exceeded the launce in length and thicknesse onely. Wee at this day preserve the Ashe before all woodes for toughnesse; lightnesse and beautie; especially if the vaine runne through to theend. Notwithstanding I finde in Cicuta a knight of Venice, an old fouldier, and c Aurel. Cicura mil. one that followed the Emperour Charles the fift in his warres of Africk, that the opinion was 2014 of his time enclynedrather to Fivre, both for lightneffe, and strength. I have not feene the experience : therefore leave I the indgement to triall. Wee have then out of Alian that the armed, had both target and pike, that one man should at one time wie both target, and pike in fight, against the enemy will seeme incredible in our dayes. Tet wied the Macedonian fouldiers both : at one instant they both charged theire pikes , and covered them selves with theire targets against the flying weapons of the enemy. The manner was this : when they closed with the enemy, they charged theire pikes with both handes, and with a flight wrying of the body, and lifting up the right shoulder, whirled their target, hanging at their backe, upon the left shoulder, that flood next the enemy in the charge: and so covered all theire body to the midle, and beneath. I have touched it in the practife of Cleomenes. It appeareth more plainely in Plutarch, describing the battaile betwixt K. Person, and the Conful Amilius, Heehath this: The enemy approaching Emi-de Pierreth in lius issued out of his Campe, and fownd the legionary Macedonians, bearing nowe the heades of their pikes stiffe vpon the targets of the Romans, not suffering them to come vp to the fword: which when hee fawe, and fawe with all the other Macedonians casting about their targets from behinde their shoulders, and receiving the Roman targetiers with their pikes abased together arone fignal, and likewise the firmenesse of the battaile shutte vp, & ferred, & the roughnesse of the front (the pikes lyeng out before) he became astonied. & affrighted, as having never before beheld fo fearefull a fight. Which paffion.& speciacle, hee afterward oftentimes recounted to his familier friends. This ionwing of targets in the front is called Synafpismos: whereof wee shall have occasion to Speake heere after.

of Ælian.

5 The

The light. They had divers names given them in the Greek history. Some-Polyb 1 3,168 times they are called Euzoni, because they so girded up theire apparaile about the that Sophis 5,194D. they were light and fitt for motion : Sometimes Askeuoi, because they beare no mili-Xinopol de co. par furniture of defence : Sometimes d Elaphroi because they resemble (as some think) Parles in As a harte in lightneffe, and swiftneffe: Sometimes Gynnict & (naked) because they were and 35.
A recomber without defensive armes: Sometimes Psyloi (naked or light) as they are heere termed

6 Flyeng weapons onely] The light-armed are divided into three kindes, Bonson Pa. Arches, Darters, and Slingers. Which three kindes were of much vie emongest Annual Cor. the Gracians, and they beare onely flieng weapons. h Xenophon testifieth that Cyrus the Justines edder had them: And the Gracians in their creturne out of Persia. Alexander had knops decretains in the warre against Darius: and Pyrrhus in his warre in Italy, Sicill and Greece: t to 4,326, A ... The Gracians against Brennus King of the Gaules: " Both the Athenians of Thebans

Phnarch in at the battaile of Delos.

7 Arrowes] Archers have alwayes beene of speciall esteeme for the field, and ore-The cianos. ferred before the other kindes of light armed. Many nations have beene commended 15,18. for theire skill in shooting. Emongest the Gracians the Cretans were (of anneient time) fole archers, as Paufanias witne feth. Tet was not theire fervice aquall with the fervice of the Persians. For Xenophon confesseth, that the Persian bowe overreached the Cretan a great way : and that the Rhodians with theire fling owt-threw the Cretan bow. Of the Carduchans a people, through whose Countrey the Gracians passed at their rexonoh de en turne out of Persian Xenophon writeth thus : They caried noe other armes . then

ped Cyri. lib. 4 bowes and flinges. They were excellent archers; and had bowes well night three cubits long; arrowes more, then two Cubits. When they shotte, they drewe the string, applieng theire hand some what toward the neither end of the bowe, fetting theire left foote foreward. With theire arrowes they pierced both targets, and Curates. The Gracians putting thonges to the middest of their arrowes sent them back at the enemy in steede of Dartes. The 9 Diodor Simil, same in effect is reported by 9 Diodorus Siculus. Of the Parthian horsemen, Appian

faith: When Craffus commaunded the light-armed to dif band, & goe to the charge, they went not farre, but meeting with many arrowes, and being fore galled with them, they retired (treight, and hid themselves emongest the armed, and gaue beginning of diforder, and feare, repræsenting to the fight of the rest, the force, and violence of the shotte, that rent all armes, they fell vppon, and made way aswell thorough bodies, that had the best, as the worst furniture defensive: giving mighty and violent strokes from stiffe and great bowes, and forcing out the arrowe boilteroully with the compalle, and bent

of the bowe. Plutarch hath the very wordes , that are in Appian. The Indians crosso ib. 8 also were good archers, albeit not much praised by Q. Curtius, Hee faith. theire arrowes were two Cubits long, which they deliver out of theire bowes, with more labour, then effect: for as much as the arrow, whose whole efficacy is in lightnesse, becometh altogether vnwieldy by reason of the weight. And yet hee telleth, that Alexander, at the affault of the principall City of the Mallians, was ftrooke thorough his Curace into the fide beneath the pappes with an Ine Phoreth in A. dian arrowe: with whome Plutarch and Died. Siculus accord. V Arrian addeth the wound was so deep, that his breath was seene to issue out together with his

blood. The Gothes and other people of the north, that invaded the Roman empire. z vega.lib.z.c. had theire chiefe victories against the Romans by the help of bowes, and arrowes. = Ve-

getius (before alleaged) (peaketh it plainely : So our fouldiers, faith bee, vnarmed

both bodies and heads, encountring with the Gothes, were oftentimes wholy defeated, and flaine, with the multitude of their earrowes. I may not pretermitte the praise of our nation in this skill. Our owne stories testify, that the great battailes, we gayned against the french, were gayned by the ioint-shooting of our archers principal. ly. And that the English have heretofore excelled in archery & shooting, is cleere by the tety. Anathas inc. Linguiju mane vectory or commending the vec of bows, a sort, co-me thinony even of Strangers. Cicuta (whom I named before) commending the vec of bows, a sort, co-me desticion mil. as necessary for the [rvice of the field (or that long after gunnes were invented) prafer- ib 2,206. reth the English before all other, and setteth him downe, as a patterne for other to follow. A 2d P Astritum, disputing of the violence of arrows, doubteth not to affirme, that an En. b Patrit. Paralle, glish arrowe with a little waxe put vpo the point of the head, wil passe through 3 Pets? any ordinary Corflette or Curace. Howfo ver the credit of bowes is loft, at this prefent, with many great fouldiers, yet have they of auncient time been highly prifed, Vege. e vegette, cas tius (aith: how great advantage good archers bring in fight, both Cato in his 15bookes of military discipline doth shewe evidently, and Claudius, by augmenting the number of archers, and teaching of them the vic of theire bowes. overcame the enemy, whome before hee was not able to matche. Scipio Africanus (the yonger) being to give battaile to the Numantines. that before had forced a Roman army to passe vinder the yoake, thought hee could not otherwise haue the better, vnlesse hee mingled chosen archers in every Contur and Leo the Emperour in his Constitutions milita- a Leompa S.s. ry bath this Constitution rongest other : You shall commann fall the Roman youth, till they come to fourty yeares of age, whether they have meane skill in shooting, or not, to cary bowes & quivers of arrowes. For since the art of shoo ting hath been neglected, many, & great losses have befallen the Romans, And in another place : eyou shall enioune the Commaunders under you, in winter to e toom no. take a view, and to fignify to the Turmerches (Coronells) now many horse, & 40what kinde of armes the fouldiers, vnder their commaundes, stand in need of, that necessary provision bee made, & the souldiers be furnished in time convenient. But specially you are to have care of archers; & that they, who e remaine at home, & haue vacation from warre, hold bowes and arrowes in their howfes. For carelessnessie heerin hath brought great dammage to the Roman State. So Leo. This of ould time was the opinion of the Romans concerning archers. Howe wee are fallen out with them in our dayes (the skill of the bowe, being a quality to commendable, and so proper to our nation) I knowe not, whelle fire weapons perhaps have put them out of countenaunce. And furely it may not bee denied, that the force of fireweapons of our time doth farre exceed the height of all old inventions for anoyeng the enemy. And, when I have given them the first place, I will not doubt to give the fecond to bowes and arrowes being fo farre from casting them of that I would rather fellow the wildome of the Gracians; who e albeit they effecmed arrowes the best flieng wear pons, yet thought it not amise to hold in wfe singes, and dartes. Every weapon hath it property; and that which is fitte for one fervice, is not fo fitte for another. The fireweapons have theire advantages . They have also theire disadvantages. Theire advansage is . they pierce all defence of armour , and lighting upon a place of the body the wound whereof endaungereth life, they bring with them certeine death. Theire difadvantages are, they are not alwayes certeine, sometimes for want of charging, sometimes through overcharging, Cometimes the bullet rowling out, Cometimes for want of good powder, or of dryed powder, sometimes because of an ill dryed matche, not fitte to coale, or

notwell cocked. Besides they are somewhat long in charging, while the musketict takes

downe his musket, vncockes the matche, blo wes, proynes, shuttes, casts of the pan,

tafles about the musket . opens his charges , chargeth , drawes out his stonring ficke. rammes in the powder, drawes out againe, and puts up his skowring fluk, layes ebe musket on the reft , blowes of the matche , cockes , and tryes it , gardes the pan, and formakes ready. All which actions must necessarily becobserved, if you will not faile of the true vie of a mufket. In raine, fnome fogges, or then the enemy hath gayned the winde they have fmall wfe. Adde that but one ranke (that is the first) can give fire upon the enemy at once. For the refi behinde, discharging, shall either bound theire owne Companions before, or elfe shoote at randon, and so nothing endaunger the enemy. the force of a masket being onely availeable at point blanck. Contrary wife the difadwantage of arrowes is in the weaknesse of the stroke, which is not able to enter a Curace , that the foote or horse nower fe. Tet can noe meather bee founde , where in you may not have good ve of bowes: raine , frome , winde , haile , fogges , binder litle (efpecially the firing of the bowe being not to Wette) may rather profit Because in them you can hardly discerne, much leffe av oide, the fall of the arrowe. As for quicknesse in delivery the benefarre excelleth the musket. A good fing e archer is able to give fine Shorte in exchange for one of the musketier; and that with fuch cert inty, that you shall not beare of an archer that mifeth the delivery of his arro w. Where the musketier. often fielesb by reafin of the accidents and impediments before by mee rehear [d. loine that a whole [quadron of archers, being embattailed , may floore at once together : which onely the first ranks of muskeriers may doe. And make the case there were a hundred musketters, and a hundred bowe-men eche digested into ten f les , eche file contegning ten men. she bowe men shall bee able to shoote at once a hundred arro wes (all theire arro wes) for ten bullets of ven by the musketiers, namely those ten of the first ranke discharging alone. Is must not bee presermitted, that the booke and quiver both for marching of all service are lighter and of leffe labour to vife , then a musket , which is noe fmall advantage in armes and fight. To conclude the bowe-men may beeplaced behinde the armed foote . and a Placiantia, get in shooting over the Phalange anoy the enemy before toyning, and all the time of fight, even whileft they are at pushe of pike; where the musketier, thereplaced, must either idlely look on , or elfe playing with his musket , most of all endaunger his owne friendes. Reither is the force of arrowes fo weake, as is immagined, noe not in the arming of our dayes. For the pike albeit bee have his head and body covered, yet are his legges, and feete, his armes, and handes open to woundes : any of which parts being wounded bringes a difability of fervice. To fay nothing of his face, anderes, before which the showers of arrowes falling like a tempest without intermission , must needes breed a remedile se terrour, and make him thinke rather of faving himselfe, then offending his enemy. The musketier being also unarmed is as subject to the shotte of arrowes, as the archer is to the shotte of the musket; and the arrow touching any vitall parte, as much taketh away life, as doth the musket. Laftly a horse-man for his owne person (1 must confesse) is lafe enough from the dannger of arrowes by reason of his armour but his bor Ce . being a faire and large mark, and having neither barbe, nor pettorall, nor onoht elfe to bide his head or breast , how can hee escape woundes! Witnesse our fieldes in France, where our Archers alwayes beate the frenche horfe, being barbed and betser armed, then our horfe are, at this day. And for the bloudy effect of bowes the flory of Plutarch is worth the reher ling. He in the life of Crafus hath thus: , The Parthians opposing the Cataphracts against the Roman horse, the other Persians galloping heer and there difperfedly, and troubling the face of the field, broke vo from the bottom, hills of fand, that raifed infinite duft, whereby the Romans loft theire fight and voice : and thronging together, & thrufting one another were wounded, and died not a simple, or quicke deathe, but tormented with convultions

convulsions and panges of grief, wallowing vp, and downe, in the fande to breake the arrowes in theire woundes, or elfe endevouring to pluck out the hooked heades, which had pierced vaines and finewes, renting a freshe themfelues, & adding torment to torment: fo that many died in this manner, & the rest became unprofitable. And when Publius Crassus defired them once more to charge the Cataphracts, they shewed theire handes nailed to their targets, and theire feete fastened to the grownde, whereby they were vnable either to fly, or fight. Thefe wonders did the Parthian bowes, which notwithfanding were not to bee compared to our auncient English bowes, either for strength, or farre shooting. And that wee may not seeme to rely upon antiquity alone. "The battaile of Curzolare (com. 2 Paris, monly called the battaile of Lepanto) fought in our dayes betwint the Turkes, & Chriftians by fea may ferue for an experience of the fervice of bowes and arrowes. In which there died of the Christians by the arrowes of the Turkes about fine thowsand, albeit they were in calleges and thips, and had theire blindes pretended to faue from fight, and mark of the Turks , where as the artillery of all forts of the Christians consumed not fo many Turkes: notwithstanding the Christians had the victory. Nowe then for us to leave the bowe. being a weapon of fo great efficacy, foready, fo familiar, and as it were fo domesticall to our nation, to which wee were wont to bee accustomed from our Cradle, because other nations take them selves to the Musket , bath not so much as any shewe of reason. Other nations may well for beare hat, they never had. Neither Italian, nor Spaniard, nor Frenche, nor Dutche, ha these five hundred years , been accounted Archers. It was a skill almost appropriated to our nation. By it, wee gayned the battailes of Creste, of Poitiers, of Agincourt, in France : of Navarre, in Spaine : By it, wee made our felues famous over Christendome. Ind to give it over upon a conceit onely (for noe experience can fay that our bowe was ever beaten out of the field by the mufket) will prouce an immitation of Afops dogge, whoe carieng a piece of fleshe in his mouth over a river , and feing the shadowe in the water, fnatched at the shadowe , and left the stelle I heake not this to abase the service of muskets, which all men must acknowledge to bee great : I onely shewe, there may bee good wife of bowes, if our archers were fuch , as they were wont : which is not to bee dispaired , and will easily come with exer-

Dartes The names of dartes are divers in the Greek Story. A Darte is often called Acontion: and thereof cometh Acontizo, to throwe a darte, and darter s are called h Acontifta. So doth Alian heere terme a darte. Sometimes a darte is ter- b Xongo d med Palton of the verbe which figuifieng to shake or make quiver. The word Palton is a arribe signifieng to shake or make quiver. The word Palton is a arribe signifient much wied in Arrian and Xenophon specially, when they speake of the Persian dattes. bit 19. b. ib. Tete Diodorus Siculus nameth the Persian darte Saunion: which name also is given e Diod Sicultion to a Gracian darte by Plutarch, and by the same Diodorus. Sometimes a darte is named 17 573 & lib.14 Doration: Doru, as I faid, being a Speare, and Doration according to Suidas, a little 10 c strong de er speare, or darte. Alian wheth the word in this Chap. Lonche, albeit it properly signify ped critic, is the thead of speare, or darte, yet dothic sometimes signify the darte it felf, So is it to me yet? ken in & Xenophon, when hee telleth, that flieng weapons began to walk on all fides, herem, a Xeochide ca. (that is dartes) arrowes, and stones out of slinges, and some out bands, And Dio. 13-20 dorus Siculus hath axortique ras dayxas, to throwe dartes, even in the actes of Alexan-b Diod. Signal H. der. Yet wee find that feares were also cast under that name , and Xenophon ix Saith, that the Thebans cast Dorata against the Lacedemonians. The Darte hath grach's \$75 D. beene in vie emongest all nations. The matter, fashion, and force of the Roman darte may bee seene in k Vegetius, and in Lipsius his Commentaries ad Polybium. k Vegetia a The manner of the darting of the Macedonian armed appearethin the fight betwint Lipford Polyb. Choragus, and Dioxippus before by mee mentioned : where weefind that Choragus caft

Paybles AR E fall upon. For the length, I give, it differeth not from the Roman darte in Polybius: and Kenophon fem:th to affirme it , when fpeaking of the arrowes of the Carduchans, e xoooh de ce she saith they were onger, then two cubits, & addeth, the Gracians sent them

Pod Gr. 1bd.

About the middeth of these dates

and the backe againe at the enemy in steel of Dartes. About the middeth of these dates

and the saith thesis. they fastened a thong, which was called arrows, wherein, inserting theire foresinger, they launced the darte with more facility. X nophowwithe feth it in the same place, and in a Xeoph de can another place hie faith, a Xeophon communded the targetiers to marche with their engers in the thonges of theire dartes, the archers with their enrowes

nocked, the flingers with their fer, ppcs fall of ftones, that they might be redy to let fly, when they were commau ded. These dartes were forcible enough to pierce e xecond. Ha armoures of that time, and that with them alone Iphicrates overthrew and distroyed a whole Mort of the Licedemonians, which people were accounted the best armed, and the

most valiant of the Greekes before the Macedonians came in credit.

9 Stones. There are heere mentioned two manner of throwing stones, the one with the fling, the other with hand alone, The flones, thrown with the fling, fly with much more violence, then the stones throwne with the hand; and, being cast with a skillfull and Brong arme, they reache a greater way, then a man would thinke. And yet not fo farre, as bullets throwne out of a lling, which by Xenophons report outreached the Persian arrowes. Freenanders I have before touched the flore I will nove lay downe Xemphons wordes, The Gracies of the flore touched the flore I will nove lay downe Xemphons wordes, The Gracies of the Gr risophus, & Xenophon) had not marched farre, before Mithridates appeared againe with 200. horse, and 400. Archers & flingers, which were very nimble & light. Hee came close vp to the Græcians as a friend. Being neer, some of his ho: f.; & foote began to shoote, other to sling, & to wound the Græcians. The reare Commaunders of the Gracians were hardly bested. Yet could they doe nothing to anout the enemy. For the Cretans shoote not fo farre, as the Persians, & carrieng noe armour of defence, they were faine to hide themselves with in the body of the armed; & the Darters were not able to reache the flingers of the enemy. Xenophon therefore having the rear, thought good to charge and follow the enemy. But hee was not able to overtake them, (for the Gracians had not horse) & the Barbarian horsemen, shooting backward in theire flight, wounded many of them, that gaue the chace. To remedy this inconvenience Xenophons advice was to provide horse as many, as they could. And hearing, that there were many R hodians in the Campe, skillful in flinging, whose flings reached twice as farre, as the Persian sling (for the Persians vsed stones, that filled the hand the Rhodians leaden bullets) hee likewise advised to armethem with flings, an ivee theire service. The next day the Gracians furnished out 50 horse, & 200 flingers. And when Mithridates shewed himselfe againe with a thowfand horse, & soure thowsand archers, & slingers, and came vp to charge, both the R hodian bullets light emongest his troupes, and the 50 horse issuing forth fell ypon the enemy and put him to flight, and flew many of the foote in the chace, and tooke eighteene horfe. Weemay heer note two kind of flinges one with the flone, the other with the bullet : and besides, that the Rhodian sing with the bullet over-reached both Cretan, and Persian bowe : which was yet afterward

more plainely declared, when Tiffiphernes charging the Grecians with his Perfan archers, the Rhodian flinges fo terrified him, that both himfile, and his troopes with a Memophideen drews. And allbut hee followed a faire of, yet durft hee noe more approache, but 100 C (uffered them quiety to m wiche all that day , and many other afterward. In this arte of flinging, allthough many nations Isboured, yet were there very fewe, that excelled. The Bible maketh mention of feaven hundred Gybeonites, whose skill was excel- bid gove Lint in flinging. Of other nations none might compare with the Baleares of whom said Dio dorus Siculus writeth thus : Theire armor is three flinges, whereof they have one about theire heades, another about theire waste, the third in theire hand. In warre they cast greater stones, then any other, and with such force, that they may feeme to bee fent out of a Catapult. Therefore in fieges and affaults of Cities they wound the defendants of the walles, and in the field bre ake targets, and head-pieces, and all defensive armes. They ayme so certeinely at any marke, that they feldome faile in hitting. The cause is theire continuall practife from theire childhode, theire mothers continually enforcing them to fling, even when they are yet children. For fetting vp bread vpon a poste, as a marke, they are not allowed to eate, vntill they hitte it, and haue it given them by theire mothers to eate. So farre Diodorus Siculus: with whom & Vegetius agreeth. The fame Vegetius faith that flinges were made a veget Lices either of flaxe or Thaire, The forme was that it had two ends, the one fastened to eve the hand, the othe olet flippe, being broadest in the middest, lest the fone fould fall " in fine. out. Diodorus hath before expresed with what force a stone went out of a sling, Ve- & vegetapas getius addeth, that they are more violent, then any arrows : piercing head-pieces , Curaces , and other armes. The fane " Vezetius limiteth the & vegettae.s Bace of theire reache to fix hundred foote : and faith , that flinges at that distance were seene often to hitte the marke : and attributeth as much to archers. h There are, that affirme, that a leaden billet fent out of a fling will melt with the vehe- h Oneland care ment motion of the aire. Let the credit bee with the reporters. Wee have not found that experiences in our pieces, which notwithstanding force out theire bullet with fire, & that with greater vio'ence, then any hand fling can doc. For stones to bee cast with the hand fee Vegetius. Polybius commendeth the vie of them. 10 The armour of the Argilos] What this Argilos should meane, I see learned doubt, and I have little to fay. Whether it come as a diminitive from acros (fwift)

of Ælian.

or from a City of Thrace, called Argilos, or from any other original I will not affirme. Heere if the text been not corrupted, and the worde crept in , or exchaunged by the negligence of some copier, it must signifie a targetter. Which Alians description makes hevident. That there was such a Ctty in Thrace you shall finde in , Thucydides. And that the Thracian foote for the most part were Targetiers, & Thucy 1 4,348 I remember, I haueread in Xenophon. But then a question may againe arife, Calsassi Cing the inhabitants of that City were not called argiloi but argilioi (for the City it felf was called Argilos) why the Targetier should be called Argilos , and not Argilios. The chaunge is not great. Many fuch mistakings are to bee found in transcribing of Copies. But I thinke rather there is an errour in the text; and that for two causes. First because Llian dividing the foot into three kindes , Armed , Targetiers , and light-armed . and difcourfing of the armed and light-armed expressely by name , not so much as nameth the Targeticr , but under the name of Argilos. Then for that Lipfius (whether I Lipfier al Pobee had another copy of Alian , I cannot tell) citing this very place of Alian , ci-1 in fine teth other wordes , then heere wee find. The Targetiers , faith hee , (out of

Alian as hee pratendeth) vie, as it were, a middle kinde of arming. For theire Target, called Pelta, is a little light Target, and their pikes come much short of the Pikes of the armed. Vnleffe happily Lipfius have borrowed the wordes out of Suidas imagining them to bee Elians, and fo citeth them under his name. For I finde them in Suidas in the explication of military appellations; but I finde them in noe editition of Alian, that hit herto hath beene printed.

II A litle flight target called Pelta] The forme of this litle target is diner fly Scholiaft Thu expressed by divers Authors. The Scholiastes of Thucydides giveth it a Tetragonall end the site of four efided shape: with whom also immeth Suidas, "He sychius saith, Pelta is a litle e Heighbasm target having noe circumference, meaning, I thinke, it is not rounde. Hee faith al-(oit is a Thracian weapon: to both which significations Suidas agreeth. The Thracians vied thele kindes of Targets, and often fent thele Targetiers to ferue the Gracians.

d Thuryd.lib. 2. d Nymphodorus (feeking to make a league betweet the Athenians and Sitalces Kine of Thracia) promifed to procure Sitalces to fend them an army of horfe, and Peltafts (Targetiers.) Xenophon (peaking of the Thracians, that affaulted his lodging telleth, that eafter the Trumpet founded, and many of his fouldiers came to his aide, the Thracians Cyclub. 7. fled casting, as their emanner was, their eT argets (Peltas) at their backes. When f Xenoph bift.

getiers) to his aide. But the Pelta, that Elian heere mentioneth, was rounde. soids in In- & Suidas in the wordes, before alleaged by Lipfius, as out of Alian called this target Afpidifce : that is a litle Afpis , fuch as the Macedonians bore , which were without all qualtionrounde. The invention of this Pelta is attributed to Iphicrates the Atheb Diodassal, lit. nian. b For whereas the Athenians before his time vsel largeround targets (aspides) to so have limit which were not so easy to bee wielded, b ing heavy, he provided them litle targets to

make them light, and quick for all fervice. He altered not the forme of the round. i Acmil at Pro nesse, but diminished the weight, in abating of the breadth. Amilius Probus fath, boin sphease, hee made them beare litle targets (Peltas) in steede of large rounde targets (Parme,) where vppon they were ever after called Peltasta. The invention therefore of this kinde of Target is attributed to Iphicrates. For the litle targets of other k xenop, deen formes were long before the age of Iphicrates. Le Cyrus the yonger had Gracian Targetiers

pet Cyrus the yonger had Gracian at theire returne out of Persia: and likewise those, that pel Gribb in his army: land the Gracians at their ereius news of the handes of the thirty Tyrants. All laces of the bandes of the thirty Tyrants. All seems between the pelta to differ liste or nothing the laces of the thirty Tyrants. All seems which daubtleffe was round. Polybius faith, m x-noph histo. from the Parma velitaris of the Romans, which doubtlesse was round. Polybius faith,

12 And his pike is much shorter] If it bee as Diodorus Siculus and Amiliue P Substa Po- Probus report, that I phicrates was the inventer of the armes of the Targetier, the pike Should bee little Shorter, then the Macedonian pike. Hee gaue them little targets for great Targets, and doubled the length of theire pike, and fword. If the length of the pike were doubled . I cannot fee , how it should come much shorte of the Macedonian Pike. But it may bee, they were long at first, and that afterward vie, and commodity brought them to a leffe fife, to the end the fouldier should bee nimble and ready at charges. But

Aemil Prob, had the Poltaft noe other armes, then are heere mentioned? Hee had. And a first hee had a linen Curace for lightnesse fake, and then a sword of double length to his former sword. * Xerorh de ex. Further hee had dartes : Xenophon telleth that , in the battaile betwixt Artaxerxes & per Cyri. lib. 1. Cyrus, Tifaphernes charged the Gracian Targetiers, whoe divided them felues into two partes, and plied his horse with dartes as bee passed through them. The same Xenophon (xmoph bids afterward telleth of the Targetiers under his commaunde, that hee directed them, to

hold their fingers in the thongs of theire dartes, and bee ready to throw, when hee gaue a figne : and that thefe very Targetiers of Iphicrates with theire dartes a Xenoth biffe. and other missive weapons destroyed a whole Mora of the Lacedemonians without comming neere or closing with them. Tet Leo giveth the Targetiers noe more, then tar b Leo cap os. gets, and speares (Dorata.) But in that (as in many other thinges) I make noe doubt, 37 bee followeth Elian, whose wordes also hee well nighereternes, aswell in this place, as many other. In perufing the story of Alexander (in Arrian, the most faithfull histoaian of his deedes) I find noe Targetiers by the name of Peltasta in all his army. The names of Armed, of archers, of Darters, of flingers I meete often: but not of Peltafix. Which made mee once doubt, whither Alexander over veed them or noe. Since upon better consideration I am induced to thinke, though the name in the story faileth, Tet the kinde of fouldiers, fo armed, and fo appointed, as Elian describeth, may easily bee found : and that under the name of Hypaipistes. Which name albeit most usually signific him, that carries another mans Target, yet is it also applied to souldiers, that are neither light, nor heavy-armed, of which kinde the Targetiers were, as a meane bet wixt both. That Hypaspistes significath noe heavy armed, may bee evident by the wordes of Arrian. Alex - AH. Ebs 11.8 ander, when hee fawe the streights of Cilicia possessed with a strong gard, left Parmenio behinde withall, that were heavy armed, himselfe about the first, watche taking the Hypaspista, and the Archers, and the Agrians (who were darters, as I have shewed) led on in the night toward the streights, purposing to fall vpon the w the, before hee was looked for. Hee left all the heavy-armed with Parmenio, and tooke the Hypaspista with him. And in another place hee faith: d Alexander commaunded the Hypaspista first to passe the river, and af-d Artiber A. ter them the Macedonian armed. Hee distinguisheth the Hypaspista from the armed. And freight after : . Three dayes after Alexander understanding that Cleitus & Glaucias were ill lodged with theire army, & neither held watche, nor had cast a trenche for theire owne security (for they imagined Alexander marched away for feare) and that theire Campe was firetched out to a needleffelength, fecretly repassed the river a litle before night, leading with him the Hypaspists, and the archers, and the Agrians, and the Phalanges of Perdiccas and Coenus. And in the same booke at the affault of Thebes, when Perdiccas had engaged himselfe and brought Amyntas with his troupes in the same danger, Alexander lothe to leave them in hazard, advaunced with the reft of his army, and gave a signe to the archers and Agrians to enter the trenche, the Agemata (Livy translateth them legions) and Hypaspists hee held without. So that in all these places hee distinguisheth them from the heavy armed, and maketh the Hypaspists one, the heavy-armed another. I might alleage other paffages out of the same author, but these will suffise. That they were not of the light armed may bee proued by the same places of Arrian. Where they are al waies distinquished from the archers and Darters. There targets make them unfitt for slingers, and mention of flingers I find in other places. The very name he weth that they carry targets, and the great Etymologicon alloweth them spears beside their targets Whereby they are clearely exempted from the light armed it remaineth then, that they be the peltafta, which Alian heere speaketh of, especially since they were armed with target and speare, which armes hee giveth to his targetiers, and to no other, except it be to the armed.

13 Cataphracts] The horsemen are divided into two kinds , Cataphracts' compleat armed and not Cataphracts. Cataphracts are those, that cover themselves and horse with armor. Not Catas bracts, that fight with launces, or with flieng weapons. Livetermeth Cataphraces (Loricatos) because they wore curasses The other fort are either launciers or files. Accobolifts. Acrobolifts came not to the shocke , but plyed the enimy a farre of with

flieng weapons. The Launciers closed, and charged the ennemy with theire launces. The word Cataphrasso (to cover with armes) giveth name to the horsemen Cataphracts: and as the horfemen are called Cataphracts, fo is the furniture of horfe and man called Cataphragma. How they were armed Alian heweth when he faith they cover them felues and their hor fes with armour yet was it not always, that the whole hor fe * Xenorth Cyro was armed. * For Xenorthon Speaking of the Persians in the time of the elder Cyrus, faith, they armed there horses with frontlets and pectoralls & covers for there b xenoph deec. thighes. As much hee faith of b the fix hundred ho: fe that followed Cirus the younger ped Ciru, the: against Artanerxes, faving ether wanted cover for there thighes. The hir smenthemselves he giveth great Curasses, and cuisses, and head pieces. So it appeareth that the horse were not all over armed, but onely theire heads their breafts and there forethighes. Tet Pantarch speaking of the Cataphrast, in the time of Lucullus, saich, theire leggs, and thighes were unarmed. Concerning the Parthians Suidas, I know not out of what Author, hath thus: The Cutaffe of the Parthian horfemen is made in this manner : The part be. fore covereth his breaft, and thighes, and his hands to the fingers end, and his leggs. The hinder-part, his backe, and necke, and all his head. There are buttons made for the fides, with which both the parts being fast ened, it make the the whole horsemen seem, as if hee were made of iron. The iron neither hindreth the firstching out, nor the gathering up of his limbs, it is fo exactly fitted to the nature, and fife of all parts of the body. Likewise they arme there whole horse with iron, except his hooses, because their cownearmor would little availe, in case theire horse miscaried. Curius describeth the forme in the Perfian hor femen, who fe furniture, bee faith, was made of plate faltened together in e Applia Parth. continued dependances of scales of iron Appian speaking how the Parthians seeking to terrify Crassus, and his army , upon the fudd sine calt away the couers of theire armour, and both them (elues appeared in [hining curaffes, and head-pieces the Margian iron of which they were made dirting forth a flashing, and dispersed twinkling light, and their horfes gliffring in brafen, and tron furniture. Tet doth Appian in the fime place note. d Appian in Par that the belly softhef borfe, was not armed. a For the french horfemen fuith he that then 143 D. & followed young Craffus, when they perceived, how little they prevailed with theire staues against the sure and unpierceable at mour of the Parthians ligh. ting from theire owne, and creeping under the Parthian horses, stroke them into the bellys, and they impatient of paine and flinging heere, and there, an I treading under foote, as well their riders as their enemies, died in the place. Plutarch hath the like. The Cataphracts, beside theire armour of defence, had a launce, or . Dien in Lucul, bor femans flaffe, to fight with all. " Plutarch affirmes it : Lucullus , faith hee , after hee fawe Tigranes his Cataphract ho: femen (whoe were of most acount) defended as it were, by a hill, that had the ground about plaine, and broade, & the afcent (which was about fower furlongs in length) not very hard, or fleepe, commaunded the Thracian, and gaule horfemen, hee had, to give vpponthe flanke, and to put by the launces with theire fwords : For the onely ftrength of the Cataphract is his launce, and it alone hee is able to vice either in defence of himselfe, or annoying the enimie; being by reason of the weight and harflines of his furniture like a man flutte, and locked up in a wall. Huberto Plutarch. Like wife the Part' ion Cataphrasts, albeit they wiedbowe, and arrows yet they E Place Agron, had alfo launces, with which they came to the Shocke with the enemie. When the armie of Anthony (faith the fame Plutarch) fawe the Parthians ready to give on the armed turning their faces about toward the enimie, tooke in the light armed. and shutt them vp with in theire battels: themselves kneeling vpon one knee.

held out theire targets before, the second rankes with theire targets covered the heads, and vpperparts of the foremost, & the following rankes did the like one for another, the figure was like the tyling of a house, & represented a shew worth the feeing, and was the furest defence that might bee, to make the arrowes glaunce of, without harme doing. The Parthians imagining this kneeling proceeded from wearinesse, and faintnesse, layed aside their bowes, and taking in hand theire launces, ranne vppon the Romans, whoe giving a jointe showte sprung vp presently, and striking them with their darts, slewe the first, and put the rest to flight. By the se two testimonies the launce of the Cataphract is clearly proved. In what manner the Cataphracts came to fight, Nazarius (cited by Stewechius) shewethplainely in a Panegyrick of his. The Cataphracts, faith hee, survection in in whome was the principall strength of the field, vsethis discrpline in charging. After clofing theire files, they keepe an equalitie in moving forward to charge, & being free from wounds, they break without difficulty any strength of battel opposed against them. They are saide to bee free from wounds, because both them silves & horses (especially before) are covered with sure armes. Theire movine must be slow, because of the weight of theire armes, which slownesse was recompensed with the violence of their e charge, which neither hor se, nor foote was able to resist. And yet a dopian in they had another incoverience, in that, being overthrowne, or slipping, or falling to the Particus 14e. A. ground, neither horf vor man, were able easily to raise themselves againe. Such was the weight of theire armo

14 Launciers are fuch] Launciers, faith Elian , ioine with the enemy, & fight hand to hand with the launce. And did not the Cataphracis for They did, but theire armour differed much. The Cataphracts both horfe and man, were all over armed. The horse of the Launciers was not armed, and himselfe, albeit heewere armed, get not so armed, but that many parts of his body were bare of armes. And his armour came much Short of the compleate. Arrian faith that the Macedonians being launciers were not able to encounter with the Scythians, whoe were Cataphracts, both because of theire number, and also of their emanner of arming. And as the Launciers armour was not so beauie, as the Compleate, forwar it more heavie, then the armour of the foote. Xenophon feemeth to fignifie fo much, telling of himfelfe, that taking the targetiers of the front, and some out of the midst of the hollow square battaile, and three hundred chosen men, that Cherisophus had with him in the front, hee marched away with all speed to seife upon the toppe of a certaine hill. And exhorting & xenophde ex his fouldiers to hafte, you may well, quoth Sotridas, the Sicionian, talke of haste, that are on horseback. I, in the meane time with this heavie target, am fearce able to marche. Xenophon hearing this, fireight dismounted, and disranking Sotridas, tooke away his target, and with it on his shoulder continued his hast in marching. By chance hee had on at that time a horsemans armour, where with although he were overpressed, yet slacked hee nothing of his pace. The rest of the souldiers beating and reviling Sotridas compelled him both to his target, and place againe. At last they gained the hill, they purposed, and made the enemie abandon the nether ground. Xenophon was h reoverpresed with the hor semans armour. If it had beene but equall in weight with a foote mans, hee might, as well have endured it, as thereft. Plutarch (heweth likewife the Plurch in Pl weight of the hor Smans armour. Philopamen, faith hee, willing vet to give more logar frength to the Kings party (hee meaneth Antigonus, the gardian of Phillip afterward King of Macedonia) & to come to hands with the enemy that was already in route, lighted from his horse, and in a horsmans Curace, and heavie

armour, wreftling hardly, and laboriouflye on foote with the ground, that was rough, & full of brooks, & ditches, hee was ftrooken through the thighes with a darte: the stroke beinge not daungerors, but forceble, so that the head passed through both his thighes. Hence both the heavinesse of the Launciers furniture may bee feen and that Philopamens this hes were unarmed, through both which at once hee was wounded with a darte : And fo the Launcier not fo furely armed , as the Cataphract. The armes, that the Launcier bore are described by Polybius speaking of the armes of the Roman hor femen; who writeth thus : The armour of theire horsemen is at this day like the Græcian. Of old they had noe curaces, but fought in short gownes girded to them. By reason whereof they were ready, & active to alight from, and gett vp quickly, on theire horses. But their fight was daungerous with the enemy, because they wanted armes. Theirestaues had two incommodities. For, being made flender and quivering, they neither could touche the mark, they ay med at, and most of them, shaken with the motion of the horse, fell out to bee broken, before the head touched, or fastened your any thing. Ioyne, that, having no iron point at the butt end, they ferved but for one ftroke onely and that at the first. And yet the head being broken of. the remnant of the staffe was of noe vie. The targets they had, were made of oxe-hyde in formelike to cakes named Popana, which are vied in facrifices. And they were neither fitte to encounter the enemy, by reason they had noe stiffnesse or fastnesse in resistance, and being resolved, and soked or putrified with raine, they could not bee any thing worthe. Finding these inconveniences by experience, they quickly chaunged for the Græcian armour; In which the first stroke of the head of the staffe is certeyne, and worketh the designed effect, by reason of the forme, which is not quivering, but stiffe and sturdy: & likewise turning foreward the butte end, which is armed with a sharpe point, they might therewith fasten a found, and forcible blowe vpon the enemy. The like may be faid of the Targets, which both in charging, and defending, haue a fure & vnfailable vse. Which they noe sooner saw, then imitated. For the Romans, if any other nation, are good to change their fashions, and to choose that, which is best, wheresoever they finde it. The Launcier then had a Curace, a head-piece, a launce, and a fword for his armes, and this was generall in Launciers; but some had besides a target, and were therefore called targetiers. The Launciers were called in greeke Doratophoroi, or Xestophoroi: two severall appellations in shewe, but signifieng in deed but one thing, the one being derived from the matter, the other from the Ariconnform forme of the launce. DOTU, as I faid before, signifieth wood: and because all the Launboth Xythin and ciers armes excepting the launce, were of other matter, then wood, the launce was called Doru, (of the wood) and the Launciers Doratophoroi. As for Xyston, or Xeston (for they signify one thing) it commeth of the verbe Xuo, or Xeo to shaue, or polish (as our toyners doe) and the launces, being made of wood shaven, or polished are named Xvsta. or Xesta, of the forme (as I faid) that is given them by shaving, and the Launciers, that beare thef launces, Xeftophoroi, or Xystophoroi. and heere I am once to note for all, that wee are not to preffe wordes according to the proper fignification of theire primitives. from whence they are derived. For considering there are more things, then names of things (as Logicians fay) the most copious language, that is cannot give proper names to all. Heereof come the wordes of divers significations. And how foever names feeme at first rough of Straunge, vse, and custome maketh them smooth, and gives them passage. Is the corne of a Prince is currant by the flamp, hee fetteth upon the mettalle, what mettalle fo ever it bee, fine, or base. 16 Acro-

16 Acrobolists] The word importeth such, as throwe alost, or from aloste. Ballo fignifieth to throwe: Acron, the highest, or the vitermost. By common viage Acrobolizo is taken for to dart, and by consequent to skirmish a farre of. Because such as east stieng weapons, as darts, and stones, and the like, came not to stedfast fight, but lay aloofe, and onely threwe their weapons at the enemy, and of so doing are called Acrobolits. Acrobolifmos in Polybius is interpreted Skirmishing. And a Diodorus a Diodorus a Diodor. Scale Doints. Acronominos in rospones to marpeace Statutaning.

Seculus in meth Acrobolimos, and a foot meddley in fight together, which Kenophone be stooghed to State to Cytilly 100 C termeth Acrobolisis by another word slowing from the same fountaine.

17 Tarentines They are fo called of a Citty in Italy Tarentum by name, the inhabitants whereof, that were hor semen, vied this manner of fight. But he maketh two kinds of Tarentines; one, that over fought a farre of with darts, and never came to hand with the enemy, the other, that after a dart or two cast, came close up, and fought band to band. Livy fleaketh of a third hind of Tarentines, who wied in fight two e Liv deed to borfes at once made fall together, and one being weary, leaped upon the back of the third in sec.

18 Some vie darts a farre of] of the manner of fight of the fe korfemen, the paf-

fage of Xenophon is worth repeating. After these things done, such bee, the aide a Xenophon of Dionysius (which hee sent the Lacedemonians) arrived, being more, then twenty Gallyes. They brought French, and Spaniards, and aboue fifty horse. The next day the Thebans, and theire confederats, embattailing theire armie, and filling the vith the whole plaine even to the fea-fide, & to the hills. that lay about the City (of Corinth) destroyed what soever, might serue to any vie. The horsemen of the Athenians, and Corinthians, seeing the strength, and multitude of the enemy, came not neere vnto them : but the horimen of Dionyfius, albeit fewe in number, galloping heere, and there, disperfedly, and putting spurrs to theire ho se, charged them with their darts, and in case the enemy followed, they returned with all speed, and then turned againe, and threw darts afresh. In docing these things they vsed to alight from theire horse, and rest themselves, and if any of the enemy singled out to fall vpon them, leaping quickly againe to horse-backe, they fled; and being pursued any distance from the army, as soone as those that pursued them retired, the Tarentines followed, and plyed them with their darts, and put them to great diffresse: forcing the whole armie to advance, and retire, as they lift themfelues. So farre Xenophon. Another example I will adde out of Livy of the Numidians, whose manner of fight is all one with the Tarentine manner. In Ligu- et ria faith hee, nothing worthy of memorie was done along time. At the end of the yeare all things were brought to extreame hasard. For both the Confuls camp, being affaulted, was hardly defended, and not long after, when the armie was ledd through a forrest, the way whereof was streight, and narrowe, the Ligurians possessed themselves of the mouth of the straights. Through which when the Consull could find no passage, hee turned about his armie, and purposed to reduct it, the way he came. But the mouth of those straights was likewise possessed by a part of the enemies forces. And now the remembrance of the Defaster of Caudium presented it felf not onely to the minds, but even almost to the eyes of euery man. There were wellnigh eight hundred Numidian horseat that time in the camp. The Commaunder of them promifed the Confull to breake through on which fide, hee pleafed; onely he defired to know on which fide most hamblets, and villages were. Vpon them, faid hee, I will fall, and fett the houses on fire presently, that, that seare may

The framing of a Phalange, and definition of the art Tactick.

CHAP. III.

BVt feeing every Phalange conteineth an uniting of bodies, offices of commaund, orders in place, a Convenient number of men, and wordes of Direction aswell for daily exercise, or trayning, as for true fights, It seemeth necesfary to deduce euery of these things into perticularity. The first labour therefore in the art T actick is for a Generall out of a multitude, that cometh to hand confused, to choose the fittest men, and dispose them into convenient places (that is to order them into files, and bodies) and of the whole number to proportion a reasonable levie, & fitting the service in hand. For to dispose and enable an Army, skillfully to march, to encampe, & to embartaile, is a matter of no small consequence. In asmuch as we often find mightie Armies through their disorder to haue been defeated by 4 a handfull of men wel disciplined & exercifed. Wherefore Ineas defineth this art to bee a fience of warlike motion: Polybius, To be a skill whereby a man taking a multitude ferofteable or dereth it into files, and bodies, and inst tesh it sufficiently in all things pertayning to warre.

Notes.

THE first labour | After provision of armour followeth choice of men. What men, and out of what climats, and of what profession, and of what age, and of what constitution of body, and of what education, are to be chosen, because Alian referreth to the discretion of the Generall, not setting downe any particular, I will likewise pase over, noting onely some places, where hee, that is disposed to seeke, may finde the circumstances of choice of souldiers. Xenoph. Cyrop.lib. 1.32. A.B. Polyb. lib. 6.406. C. Et Lipf. ad Polyb.lib.t. Dialogo. 2.3.4.5. Veget.lib.t.cap. 2.3.4.5.6.7. Et Stewechius ad bacomnia cap. 31.

16 Omnis cap. 31.

2 A reasonable leuy and fitting the service] Levyes are to be made according see to cap. 4.

2 A reasonable leuy and fitting the service of any second by Competing of Second by Competing to the warre, which is undertaken. The enemie is not alwaies of one strength. Sometimes 378 the forces, against which wee are to lead our armic, are more, sometimes lesse. The Romans, if the number of enemies were not very great, vsed but a Consular Armie; which a polyb lines a confisted of two legions of Romans , and of as many foote of theire Allies ; when ereatest, be not used two Confular armies together. And for Allies theire foote, as I faid, was equall with the Roman foote, theire horse were treble as many, and the Romans having three hundred horfe to a Legion, the Allies had nine hundred. Tetin cafe of great polyb lib. 6.457 necessitie, weereade, that the number of the Legions was increased in a Confular armie. Polybius reporteth that , a little before the battaile of Canne , the Confuls Lucius . Emilius , and C. Terentius , had allowed in theire armie , which they led against Anniball, eight Legions, which never was done before. b Mexander b Donsialina the great bring to invade the Kingdome of Persia, which for wealth, multitude of "".". men, and largeneffe of Territorie, was esteemed the richest, mightiest, and greatest Empire at that time in the world, had not in his armie abone one and thirty thoufand foote, and five thousand, and odde, horse. c Armies composed of multi-c veget is act tudes are neither fitt to bee guided, and commanded, nor yet to bee provided for.

compell the Ligurians to forfake the streights, they hould, and runne severall wayes to defend theire owne. The Conful much commended the man, and lided him with hopes of promises. The Numidians vp to horse, and began to ride heere and there, before the enemies gards, provoking yet no man. Nothing at the first fight was more contemptible. The horie, and men, were little, and leane. The horfman ungirded, and unarmed, faving that hee cartied darts; the horse without a bridle galloping deformedly with a stiffe neck, and a head thrust out at length. They purposely augmenting this contempt flid from their horses, and dallied, and sported, to bring the enemie to a gaze. Wherefore the enemy, which at first were intentiue, and ready for a charge, became gazers on, and the most part vnarmed themselues, & sett downe vpon the ground. The Numidians rode vp neerer, and then backe againe, and by little, and little, gott to the skirts of the forest; as if theire horses, being resty, had caried them forwardagainst theire wills. At last, putting spurres to they broke through the midft of theire enemies gards, & entring into a larger field, they fett fire on all the houses next the way; then burned they the next village, and wasted, and filled, all things with fire, and sword. The smoke first feene, then the cry of the people affrighted, lastly ould men, and children, fling for fuccor, raifed a tumult in the campe. Therefore without coanfell or commaund every man of himfelf ranne to the defence of his owne, and in a. moment both the enemics camp was forfaken, & the Confull, delivered from his fiege, came to the place intended. By thefetwo examples the kinde of fight, that Prob. 16. 3. these darters one horse-backe maintained, may be perceived, which was not to come neer the enemy, but to keep a loofe, and lett theire daris fiv. Besides not to observe any order in files, or rankes, but firaglingly to gallop the field, ficking by theire disbanding to tolle the enemy out of his firength , and fo to worke theire advantage. And albeit in the fecond example, the Numidians v fed not theire darts, yet they would have done it, if need Liv. decad 3. had beene; and you shall find in other places of Livy, and Polybius, they did v sually, as

h. 2 c2.C. & Vor alforn Cafar. lyb. b. 3.214 B. alforn Cafar. 19 After they have spent one or two] These darters on horsebacke differ from the other before mentioned, because at the last they some, and fight hand to hand with the enemy; which the other did not. And what fight they with all! not with launce; for then should they be Launciers, of whom wee have spoken. But they fight with battel-axes,

& Arcer in noise fivor des, and fuchother fhort weapons. Suidas affirmethit , alleged by d Arcerius: Thele, faith hee, at first cast light darrs a farre of, and afterward approaching, jovne with the enemy, fighting with battell-axes, or fwords; which kind they call light-horfemen.

20 The horsemen, that yse bowes I need not alled ze any thing to shewe that the Scythians were good archers. It is knowne to any man, that is not ignorant of Hifory. I will onely nove, that in flieng from the enemy, th y harmed as much, as in falling on. For as they Red they turned half theire hodies backemard, and hotte at him. mat joitowed, and expected not such thing. Of which fulfion of fight Plutarch giaeth the independent. The Parthians, faith hee, in theire flight shoote backward, & doc it best of soll other except the Societies. doe it best of all other, except the Scythians; the invention being witty, both

to faue themselues by that defence, and also to toke away the shame of flight. \$ X-noph de ex- That which Plutarch attributeth to the Scythians and Parthians, & Xenophon faith, the oo D. Persians vsed also, both for manner of fight, and flight.

And hee that trusteth to multitudes, esteemeth not greatly the valour of his souldiers. a Frontail & . Xerxes faide, he was not foiled by the Gracians through default of number, but because con. hee wanted men. Asit is folly to leny more men , then is needfull, so is it rashnesse or

* Xmorin Age b rather madnesse to put a few souldiers to hasard against forces, that exceed in number, and valour. Briefly all levies are to bee tempered with consideration of per-

fons, times, places, and other circumstances.

3 For to dispose and enable an Armie] Heere are sett downe in aword, as it were, the principall heads of the art of warre, Marching, Incamping, and embattailing: to which heads all other may very well bee referred. And of thefethree Alian handleth in this treatise but two, namely embattailing, and marching : of embattailing, so much. as perteineth to forming of a common Macedonian Phalange; of Marching, no more, then belongeth to embattailing in a march, that is to ordering of your men in that figure. which shall yeald most advantage against the enemy, that meeteth you; excepting that bee shortly toucheth the marshalling of baggage in your marche. The other considerations of marching, as laying, or avoyding ambushes, sending out to discouer, when to march by night, when by day, how to deceive and avoyde the enemy lyeng neere, remedies against horse, against shotte, against multitudes, passages of mountaines, of woods, of rivers, of plaines, of drye, and fandy places, thele, I (av. and (uch like, hee toucheth not in aword. And for the skill of encamping, which comprehendeth the feating of your camp, and provision of all things belonging thereto, as also the siege, and defence of Citties, and fortreses, hee likewise passeth it over with filence, as a thing not incident to his purpofed difcourfe.

4 A handfull of men well disciplined and exercised] What exercise doth for the making of good fouldiers, experience of former times will teache. It hath been the e verenth, a.c. manner of all famous generalls to bring theire fouldiers to perfection by exercise. Vegetim faith very well, It is not length of life, or number of yeares, that teacheth the art of warre, but continuall discipline & meditation of armes. Let a souldier serue never so many years, so long, as hee is vnexercised, hee shall bee still a raw souldier. The knowledge and science of armes maketh a fouldier, which is not gayned but by action. As long as a fouldier handleth not his weapons, hee is noe Actor, but a looker on. For as all abilities in artes (which are called Habits) arifeout of anumber of actions preceding, so can noe man atterne to a perfect knowledge of armes, till hee have with care, and diligence, employed his findy and labour therein, and upon the foundation of practife raised the frame of sound and persect skill. Noeman is naturally borne a fouldier. One may more incline to warre then another , but the skill commeth not Plus in Pelop without industry and paines. d Plutarch faith, that it is neither Eurotas nor the place betwixt Babyx and Gnacion, that bringeth foorth valiant and warlicke men, but they are to bee found in all places, where youth is bred vp in shame of vice, and boldnesse to vndergoe perill for vertues fake. Eurotas was a river

Blatia Lyon. neere Lacedamon; Babyx and Gnacion two rivers within the same City. The Lacedamonians were accounted the most valiant people of Greece. And Plutarch (peaketh this of the victory, which the Thebans had against the Lacedemonians; The Thebans, which till that day had noe reputation of valour; but afterward by exercife, & wfe of armes, under Epaminondas, and Pelovidas, became the bravest fouldiers of Greece: Not whike was the faieng of Pyrrhus to his muster master : choose you, faid hee, good bodies, and I will make them good fouldiers. The frength of the body Eventimen is requisite in a foul dier to undergoe the labours of marre; but exercise it is that giveth

E Cicerin Bruto the perfect skill, and the desire to handle weapons. Therefore as Demosthenes, being demaunded what was the first and principall thing in the arte Oratory, answered Action, of Ælian.

what the second, Action, what the third, Action : So may weetruely say, that in the art military exercise is not onely the first, second, & third, principall thing to make a souldier, but alfo all in all. Alian speaketh net of exercise but in Generall: what particuler exercise is fitt for a fouldier, hee, that defireth to knowe, let him reade. Xenoph. Cyrop. lib. 2.42. B. C. & lib.3 77. C. D. Veget lib.t. ad caput o . ad caput . 19. & lib 2 . caput . 23 . 24 . Iuft. Lips. comment. ad Polyb. lib.5. dialog. 14. Leo. caput. 7. Patric. Parallel. parte 2.139. Now for the victories, that have beene obterned by a small number of men well exercifed, against a multitude vnskillfull, and ontrained, I need, say nothing. Histories are plentifull withe fes therein. I will onely recite one example wherein the difference may bee seene no: between skillfull, and vnskillfull, but between skillfull, and skillfull both enured to labour, and both brought up under the same practife, and discipline of sirmes. At what time , after the death of Alexander the great , his chiefest Commaunders fell at oddes emongeft themselves; and sought every man to establish himfelf in the possession of his Conquests, it chaunced, that Antigonus, and Eumenes came together in two fundry battailes. In the first Antigonus had in his army about 28000 foote. \$500. hor (e, & 65. Elephants; Eumenes le se foote, 17000. in all (but emongest them 3000. Argyrafpides, whoe had ferved in all Alexanders battailes, & were invincible, & firok a great feare into the enemies harts) & about the number of horse, his enemy had, & So. A great feare into the enemies nais) of works the Diodorus Siculus, the fight continemed a Diodor. Siculus Heep hants: When the foote came to ioyne, faith Diodorus Siculus, the fight continemed a Diodor. Siculus agoo I while, of at last, many falling on either fide, Eumenes his foote had the better by reason of the valour of the Macedonian Argyraspides. They, albeit they were stroken in years, yet in regard of the manifold perills, they had been in, excelled in courage, & skill of fight; in fo much that no man was able to withfland them, And therefore being but 3000 in number, they were notwithstan. ding fett against the enemy, as the strength of the whole army. In the other battaile he feaketh of their age. At that time, faith he, the yongest of the Argyraspi- b Dioder. Simils des were noe lesse, then 60, years olde, or thereabout; the most of the rest about 70, & some were elder, al of the vnmatcheable in skill & readinesse of fight, & ftrength of body; fuch was theire dexterity, and courage gathered in continuance of dangers, which they had passed. Afterward rehearsing the battaile, he saith: The Argyraspides serring themselues close, and with lively force falling vpon the enemy, killed some, and put other some to flight. And sought against the whole Phalange of the enemy with irrefiftible fury, not loofing one of theire ownemen, & yet through skill & manhood flayeng of the enemy about 5000. & routed theire whole foote, which in number were many times more, then themselves. Thus writeth Diodorus Siculus of the olde practifed Macedonians: who yet fought not against straungers, or rawe fouldiers, or fuch, as were newly brought into the field, but against men of their owne nation, that had long handled armes, & wonne many victories, & been instituted, and trained in the same discipline and course military, that they them selves had been before: Such difference long practife, and experience wrought in the one against the other.

> What a file, or Decury is, and of how many men it consisteth.

> > CHAP. IIII.

O order into files is to make files. A file is a number of men begin-I ning at one Leader, and contineuing in order of followers to the last man.

of Elian.

The number of a file is diverfly given, 2 for some allow it eight, some twelve, and some fixteen men. Wee for this time will retaine the number of fixteen, both because that number is proportionable to the indifferent length of a Phalange, and also, if vie require at any time to double the depth thereof. and to give it thirty two men, or to lessen, and contract it, and make it but eight; neither of both shall hinder the service of the light-armed behinde, i for whether they vie Darts, or flings, or Arrowes, they may easelie with their flieng weapons overreache the depth of the Phalange.

Notes.

NExt after arming, and choyen of fouldiers, it followeth to put them in order for fervice, that is first to file them, then to band them (which is toyning of siles) and lastly to embattaile them, which is to make a Phalange. Of these in the follo-

I Tomake files] The Tacticks have not expressed the precepts of this arte all in the same wordes. A file is heere called Lochos, the fignification whereof is di-Polyenith, vers. Sometimees it is taken for an ² Ambushe, and Lochan significth to be in Ambushe, and Lochan significth to be in Ambushe, and Lochan significth to be in Ambushe, and the second of der one commaunder, who is called Lochagos, and Lochizo is to fett in files. The number of this body hath beene diversly taken. The Thebans Lochos Hieros h responsible. If rist instituted by Gorgidus, or as other say by Epaminondus, consisted of three a Alter dipose hundred men. The Lochos of the Lacedemonians of fine hundred and twelue. E Alten deposi. The management. In a social style of the social st ped Cynths, b. Vaccians, wonto necessaries, was more a construct a some men. Can wonto von \$4.10 before extraordinarie men to preferue the Placfium (a hollow forme of square battaile) \$\times \text{Except.dece. where in the Gracians marched) from breaking, they appointed in Lochoi, of a \$10.8 but hundred a piece, for that purpose, and Commaunders to leade them. And after heereckoneth seventy men to a Lochos. And in the first booke of Cyrus his expe-8 Kenoph deex dition, heetelleth & of two Lochoi of the armed of the Regiment of Menon, that were staine by the inhabitants of Cilicia, and counted them a hundred men. Cyrus in the same Xenophon commaundeth his Lochos to bee made of twenty foure

men. But the Lochos, that Alian heere speaketh of is a lesse number, namely

h drian lib. 7. fixteene, which was the file of the Macedonians, as appeareth by h Arrian, and 1240 Arrian , and Lochos, but Decas; and Polybius the depth of the battaile. This number of sixteene was vied by the Gracians also before King k xeroph. hist Phillips time, as appeareth by * Xenophon in his historie of the Gracians. And likewise Thursd. ub. 6. by Thursdides, who reportes h, that the Stracusans were so ordered against the Athenians. Leo faith it was the manner of the auncient warriers to make a file of sixteen, &

callethit a Tetragonall number.

2 Some allow it eight, fome twelue] The Lacedamonians made the depth of theire battaile som times eight men (for a file is it , that measureth the depth of the m Thucydib. 5 battaile) and so sought with theire enemies. Thucydides witnesseth as much: the Lacedæmonians. Saith hee, were not alwaies ordered in depth alike, but as theire Lochagoi (they were commaunders of fine hundred and twelve a piece) thought good, commonly notwithstanding the depth was of eight a " Xenoth hillo piece. " Xenothon also writeth, that Dercyllidas the Lacedamonian, being to fight with Tillaphernes, and Pharnabazus, ordered his Phalange into eight. The fame o Keeoph histo. proportion was helde by o Mnasippus the Lacedamonian against the Corcyraans,

and by 2 Clearchus the Lacedemonian against his enemies. Xenothon faith, that Thrashu. and of actions one that common against Paufanias the Luced months king, r.m. a Postro. hbs.

lus the Athenian, falseng on of Pyraum against Paufanias the Luced months king, r.m. a Postro. hbs. ged his men into eight. His wordes are : When Thrafybulus and the other ar- b Xer ge med fawe thefe things, they quickly gaue aide to theire owne people, and grain and grain and grain are put theire armed in order eight deepe. Paufanias being hardly layed vnto, and retiring foure or flue furlongs, commaunded the Lacedemonians, and theire Allies, to refort vnto him, and there casting his men into a deepe Phalange, ledde against the Athenians. Out of which words wee may note, that the Lacedemonians observed not alwaies that order of eight deepe, but varied according to place, or other circumstance. Tet ordinarily they gaue but eight to a file, or to the depth of theire Phalange, as Thucydides Witnesseth before. The same Thrasphulus With his Extenoph his. complices entring the base Citty of Athens called Pyraum to free his countrie from cal bondage of the thirty tyrants , having but a fewe with him , possessed the court, which led to the temple of Diana, called Munychia, and being affaulted by the garrison of the Lacedæmonians, ordered his armed men into ten deepe, and the light armed behinde them. The tyrants, and theire followers flood in battaile fifty deepe, dest the battaile of Leucka the Lacedamo. 4 Knoph hat niun armed Verestwelue in depth, the Thebans fifty. Mexander the great leading his arthur 1.00.00 armie against Clitus, and Glaucias, the way being so narrow, that no more then foure might marche in front , made the depth of bis armie a hundred and twenty. "And the "Kenoph de ca fou diers that Kenophon brought backe out of Persia , Then they purposed to sacke Byzants. 180 um , put themselves without commaunde in order of fifty deep: In the text is fifty deepe, but the margent hath eight : which I take to bee the truer reading, because Xenophon faith, the place was faire to fett a battaile, being voide of building, and having an even plaine. And it was not the manner of the Gracians to make a Phalange fifty deepe, unlesse there were extraordinarie occasion. & In the battaile of Delos between the . & Thueyd Eb. 4. nians, and Thebans, the Thebans were fine and twenty in depth, the Athenians but eight. The same h Athenian were eight in depth against the Syracusans. So that the h Thuryd.lib.e depth of eight was much veed among the Gracians. How-be it I find not, that they cal- 458.A depth of eight Was much used among the traum. Low the elder made his files of twelse i xnoph cross led a file of eight by the name of Lochos. Cross the elder made his files of twelse i xnoph cross led a file of eight by the name of Lochos. men, and she leader thereof hee called individuences, and discussions, and she file is selfe de-144Age cas, which in fignification albeit it importeten , yet wee must retaine the word, as it is vsed, and not fly to the originall of the Etimologie, 45 I noted before v pon other occasion. But Elisn maketh his file of fixten. His reason followeth.

3 For whether they vie darts &c.] The file being fixten in number, the fouldiers therein every one having after-diftance from other three foote, take vp in the whole depth fourty eight foote, and being doubled to thirty two men, they take up ninety fix foote, which amounteth to thirty two yards. That bowes and slings casilie out reache this distance, appe weth by Vegetius, before by mee alleaged, who faith, they ftroke their together marke fix hundred foote of, which in our account by fcores, is ten fcore. Of the darte a man may rather doubt, which notwithstanding with an exercised arme is sent much further, then thirty two yards. Lipfius writeth, that a dart was refually cast lipfal Polybo foure hundred foots, which amounteth to a hundred thirty three yardes, or as weein shoting measureit, six score and odde. The reason why Alian placed the light armed bebind wee shall see beere after in fitt place.

The order and parts of a file or Decury.

CHAP. V.

* THE best man of every sile is the first in place, and hee, that leadeth the file, who is also called the file-leader, the Commander, & the fore simpler. The last man of the file is called the Reare Commander, or bringer-up. The whole file it setting a verse, and 'a Decamy, and of some 'an Enomoty. Yet there are, that hold Enomeis for the sowerth parts of a file, and the Commander of an Enomoty they call Enomosarcha, and two Enomotics they take for a Dimery, & name the Commander thereof Dimerites, to that the half file is slid to beea Dimery, and the Commander thereof Dimerites, to that the half file is slid to beea Dimery, and the Commander thereof Dimerites. This man is the last of the file. Hee, that standed next behinde the file leader is named a follower. So that the whole file consistent of Leaders, & follower placed successively one after another. It behough the file leader to bee more sufficient, then the rest of the file, and next him the Leader of the half file, or bringer-up. They define a file to bee a Rome of followers placed according to their worth fuccessingly after a file-leader.

Notes.

THE best man of every file.] Why the file-leader ought to beethe best man of the file many reasons may bee given first because hee commaundeth therest. And as in all other things hee that is to rule, and governe another ought to have more knowledge, then hee that is commaunded, and governed, fo is it in matter of warre. Further, as his skill, so his valour, ought to bee most: that his example may incourage and incite the rest. Which is the cause, that other commaunders also are placed in front. and in the eye of the fouldiers that theire valour or forwardnes may bread an honest emulation in the fouldiers to doe, as they doe. Befides, the first place is most befeeming him. that best deserveth, and the more valiant a man is, the more hee desireth to showe it in the face of the enemy, thereby to winne himself honor, and reputation. Furthermore, hee may doe best fervice in the front by entring into the enemies battaile, and making way for the rest. IN ot valike a sworde, whose edge maketh speedy passage into the thing, it cutteth, and draweth after it the rest of the iron, bee it never so blunt. In the front, the Pluarch in Ps. ranke of the file leaders give the push to gaine the field. Which reason I thinke lead 2 Gorgidas the first institutor of the Theban Hieros Lochos, not to make an entire troup thereof apart but to place it man by man in the first ranke of the Phalange. Lastly the fight of the file leaders, being the choice of the armie, both for flature, and refolution (for b Adding cap. 13 6 Alian would have them) breads a terrour in the minde of the enemy. Who, seeing c Locas 5-7 such gallants in the front, have cause to imagine that therest of the armie, which they see not, is like to those they see. And, being never so valiant, they had rather have to doe with weake, and relenting then stout, and resolute adversaries. As at the battaile of d Liv.decada sa Canna d Annibal answered one, that brought him newes, that the Consull had commanded the horse men to alight, and fight one foote, how much rather would I, quoth hee; hee had delivered them bound into my hands. I have heard many hold opinion, that the manner of the Gracians, to bring theire best men first to fight, is contra-

In the rear, and brought them not to loyne, till both the Haffati, and Principes were beamen, or retired. But if wee confider the divertity of both theire embattailings , wee thall fee noe great difference, or at lest wee shall see, that the reason of placing their-best men was not much different. The Gracians in framing theire foure-fold Phalange made in Length an even front of a 1024. files. The files were 16. deepe, and the best men therefore In front, because being placed in the midst, or in the reare, there would have beene no wse of theire valour, and the Phalange might have beene broken, before it had come to theire Sturnes to fight. The Romans contrary-wife, in ordering a Legion, mademany maniples, and gave the front to the Hastati, the middest to the Principes, the reare to the Triary. Nowe the Triary being ordered in the Reare, might at the beginning bee brought to fight in Front, if need were; being noe need, they kept theire place, till their Generalls Yound it fit to call upon them. So then this is the difference. The File-leaders of the Gracians bad the Front, because otherwise in so deep a body, as the Phalange was, they could not have Some to fight: The Triary might alwayes have beene imployed in Front, in flanke, or in the reare, as pleased the Generall. And that the Romans also in theire several! Maniples plased theire belt men in Front, I cannot doubt. There flood the Centurions, which were the Meaders of the Maniples, and in reason Were to bee seconded with the hest men under theire commaund. C.Cvallinus may ferue for an example whoc being noe Centurion but an Evo. a Calar de beli. Late, in the bastaile of Pharfaly betwint Cafar & Pompey, bidde his Manipulers (they were of the Maniple, which hee once commaunded) to followe him, and faid thee would make his Generall give him thanks alive, or dead. Tes must I confesse. Scharthe front was not the proper place of the Evocates. But hee chose the front, and held is a place worthy of his valour. It is faid of Catiline that, when hee fought with C. Anto be saluft decomming, hee placed in the front of his army, all the chosen Centurions, and Evocates, and besides of common souldiers such, as were best armed. Livy spea. c Living decade, Ming of a fight betwixt the Romans, and the Latines, and describing the forme of the Roman lib.8.pug. 214.A battaile, after hee had limited the place of the Hastati, & Principes, writeth thus of the Triarij. After the enfignes (hee meaneth the Standards of the Legions) not the En-Ignes of Maniples, were ten other Maniples: whereof every one had three Enfignes. The first Enfigneled the Triarij, ould fouldiers of tryed valor, the Enext the Rorarii, not foe well efteemed for flyength in either age or deeds the third the Accenfi, a troupe of left truft, which was the cause, that they were cast in the reare. The Accensivere put in the reare, because there was not great opiinion of theire valor, the Triary had the front, because they were ould fouldiers, and had beene fufficiently tryed. See then in dividing of their armie into finall bodies, or battailions the Romans differed from the Gracians : in placing the best men of theire maniples in front, they observed the same manner, that the Gracians did in placing theire fileleaders in the first ranke of the Phalange.

2 Averse I have translated tichos a verse. The more a fault signification is a rome of any thing placed orderly. & Soe Xenophon applies his to trees, which were planted a xenopino orderly one after another and Fullathius to the flanding of dancers one after another in c latter in little depth ever as our falliters are placed one after another in tile. Unlins Pollux also acknowledgeth, that there were files, and ranks in Choro, that is in dannes uppor the flage. But Suidas faith it was commonly taken for a line, which was read from the left to right a Suidas, inverhand. And to fay the truth a verfe, as wee read at this day, and as they read, when Alian Perote this treatife, rather resimbleth a ranke then a file; because in a ranke men stand fide to fide, as words doe being placed in a line. Terbecause the word is received by wife in that other fence, wee must like wife admitte the fame.

3 Adecury]

3 A decury This in Greeke Alian calleth Decania, award, which in this fence o Emelogico production Autror, toen in bim, and in Suidos-, Xenophon calleth is Decas: mugicia float. See destho Prbicius and Arian, and likewise Hessehus. Leo calleth is decarchian caramather. and Akian. decarchian floateness of An Enomotical Statements.

4 An Enomotic] The word cometh from omnymi to sweare, not of omos a Shoulder, as Robortellus, and Patricius immagine; of whom the first translateth it in la-Porticios paralle, tine Intergutio, the other in Italian Spalaggione, as it were a backing W pon this conmidipartia viz ceite. I thinke, because in a file the whole number standeth one at the backe of another. e suidas inteno. Suidas faith: Enomotia is a body militarie amongst the Lacedemonians of 32 men, and is foe called, because they take theire othe together, not to forsake FErmol mag- the place affigned them in battaile. With whom agreeth the great Etymologicon: munin Enometis and Hefychius likewife; who termethita body militarie, that taketh an othe and

fweareth by the facrifice, which is offered at fuch time, as they goe into the field. And furely you shall not finde the word Enomotia applied to other souldiers, then the Lace-

demonians, or elfe to them, that the Lacedemonians commanded: untill it was afterh let pollux lib ward taken up by the Macedonians. Andh Iulius Pollux expressy noteth, that Moira, and Enomotia, are proper appellations of the Lacedemonians, given to certaine of theire militarie bodies. Albeit both the text bee corrupted in Pollux , having Eunomotia for Enomotia, & the interpreter hath worse traslated it, redring Enomotia, militarie discipline, Moira a duty. As the Lochos is great, or little, so is the Enomotia. The Lacedemonian Enomotia was 32. men, the Lochos being 512. but the file of Alian being 16. and the Enomotie noe more, then the fourth part of a file the Enomotie must containe noe more then foure men. One of every of these foure must bee a commander; who is called Enomotarcha, or the commander of that Enomotie. So that in the whole file, consisting of 16. there ought to bee foure Enomotarchas. Where they should stand in the file, is a question. Patricius maketh the file-leader the first Enomotarcha, the fift man, the second, the ninth man, the third, & the 13 man the fourth : excluding the bringer vp, whom notwithstanding hee acknowledgeth to heethe second man of the file, and in dignitionext to the file-leader. I am of another opi-

nion; and yet allowe the places of the first, fift, and ninth, but thinke the bringer-vo i Aut.1-1648 ought to bee the last Enomotarcha: Arrian confirmeth my opinion : who writeth thus: Alexander returning to Babilon, found Prucestes newly come out of Persia, bringing with him 20000. Persians. Then commending the Persians for theire obedience in all things to Prucestes, and Prucestes for his care, and diligence, in ordering them, hee reparted them into bands according to the Macedonian manner. Over every file hee appointed a Macedonian file-leader to command, and next a Macedonian dimerite, and a Decastater, so called of the paye hee had, which was lesse then Dimærites, and more then the common fouldiers; then twelve Perfians, and last of all the file a Macedonian, who also was a Decastater. So that in the whole file there were foure Macedonians, three, whose pay was more, then the common souldiers, and a fileleader the fourth, and more over 12. Perfians. So Arrian, Out of which wordes wee may learne first the number of the Macedonian file, which consisted of 12, Persians, and 4. Macedonians, in all 16. the number, that Elian requireth in his file. Next, that the Enomotarchs, or commanders of the foure parts of the file, were likewife 4. Laftly that the bringer-vp was one of the foure by express words of Arrian, which is contrarie to the opinion of Patricius, and whereas Arrian termeth the third Enomotarch, Decastatoros of the pay, heereceived, it is to bee understood, that Stater was a piece of coine, of the weight of foure dragmes of Athens whereof the

Enomotarch

Enomotarch had ten by the moneth. The dragme was of value leven pence sterling, and the Stater, conteyning foure dragmes, two shillings and foure pence sterling; and ten of them were valued at twenty three shillings and foure pence. Which was the pay of the second Enomotarch, and of the bringer-up, as Arrian affirmeth.

And the Commaunder Dimærites] About the Dimerite Arrian, and A. lian, differ. Suidas leaveth the matter uncertaine, faieng the Dimerite is commander of the half-file, but pointeth not out, which is hee. Arrian distinguisheth the Dimerite from the bringer-up, and giveth a greater pay to the Dimerite, then to the bringer-vp. The bringer-vp, he faith, was noe more then Decastateros, where as the Dimerite had a greater pay. But Elian twice in this chapter affirmeth, that the bringer-vp was the Dimerite, and addeth hee ought to bee the fecond man of worth in the file. And that the place of the reare is not much inferior to the front, * Cyrus tea. 1. Xmor Cyrus tehth his bringers-vp in Xenophon in the lewords; You have a place faith he no leffe the \$2.0 honorable, then they, that stand in front. For being in the reare, and seeing & encouraging them, that behave themselves valiantly, you make them more valiant, and the remisseand backward you incite, & spurre on, likewise to doe as well, as the reft. b Leo appointeth two Officers to a file, the file-leader, and the b Leo. ap. 4.5. bringer-vp, & so maketh the bringer-vp the second person of the file. The reare being then the fecond place of the file, I conceive no reason, why, as the file-leader commandeth the one half of the file, fo the bringer-vp should not bee the Dimerite, and command the other; and I rather agent to Elian, that of purpose describeth the particulers of this arte, as hee findeth them fet downe in the auncient Tacticks, then to Arrian, that, writing the historie of the deeds of Alexander, stumbleth by chance upon these things not greatly incident to his narration. Tet may there bee a resonable construction of both their meanings, if wee consider the severall respects of the offices of these Enomotorchs. For the middlemost Enomotarch may bee termed the Dimerite in regard he ftandeth in the head of the second half-file, and in doubling the front and some other motions leadethit : the bringer-vp because he absolutly governethit, and seeth that directions, given by higher officers, bee executed.

6 It behoveth that the file-leader bee more sufficient | The file-leader and bringers up ought to bee the most sufficient, because they have the whole government of the file, the one in the front, the other in the reare. Thereft are under them, and to bee called by the names of leaders, and followers. But yet is there a further disposition of the file, which, as I finde it in Leo, I will fett downe His words found thus: over the c Leo as 4.5.00 other fixteen you are to appoint a file-leader (as hee is termed) refolute, and fitt for fervice, and eight of these fixteen, that shall bee found fittest, you shall place in the front, and reare, of the file, foure in the front, namely in the first, second, third, and fourth place, other foure in the reare, in the sixteenth. fifteenth, foureteenth, and thirteenth place, that the front and reare may be firengthened with foure men a piece. The weaker are to bee placed in the midst of the file. This counsell, or rather precept, of Leo hath this reason. The front, and the reare, are the principall places the enemy commonly giveth upon. The front wee alwaies turne against the enemy, if we can. The reare the enemy seeketh to attache, and by it to di-firessers, if hee can. The flanks for the most part are secured by the horse, and light armed. For Leo placeth the light armed, and horfe in the flanks. Soe thefe two places, being most subject to the violence of the enemy, require extraordinarie care, and assurance. As for the weakest, which are in the midst, they never come to strike Broke, but after the front, and reare, are broken, In another place hee Writeth to this effect : your Contubernies & Leo ca 45.14 (the fouldiers that cabin together) you shal order according to fine men, or to sen, or to foure,

or to eight, or to fixteen, as you fixll find most convenient, that being bound one to another with mutuall acquaintance, they may fight one for another in battaile and bee more valiant against the enemy. But you shall doe more wisely, it when you are to joyne, you place brothers by brothers, & friends by friends. For when hee, that fightesth, hath an entietly beloved frend standing next behind him, hee must or necessity hasard himself with more egernesse for his frends sake. And the other being ashamed not to require one, that sustained has such danger in his behalfe, will hardly bee brought to forsake his friend so well describing, and first betake himselfet to his feete. The same is the advise of One sunder, and was much practifed in aunicinatione. The Lochos Hieros, or Holy-band, of the T belane (whereof I shake before) consisted all of friends, that had bound themselines one to another in frenchligh. With this Holy-band * Pelopidag yearthe (first difference) to consist of the sunder when the sunder whe

much practifed in auncient time. The LOCANOS THEORS, or TOLY-DURLES, of the theory where of I face be fore you filled all of friends; that had bound themseliates enter another another in friendling. With this Holy-band * Pelapidas gaue the first disgraceful overthrow between the tacedamonians, that ever they had. Of this band * Plutarobaroviteth, that times never beaten vanill the battaile of Cheronaa, when Philip the stable of Alexander wanquisht the Athenian, and Theban forces both nogether. After which battaile Philip surveying the dead bodies, and comming to the place, where these three hundred lay, all close mingled one with another, and strooken through with the Macedonian pikes, he wondred greatly, and hearing that it was the band of louers, and beloued, weps, and faid, evilly may they perish, that suspects with the date had bis Homotimos nourished up rogether, and Alexander his Hetairos, the best of the stroops of

did a magnificent and royall deed. For gathering together all the children of Ægipt, that were borne the same day, and setting over them some to nourish and governe them, hee gaue the same education, and institution, to them all, conceiving that they, that were brought vp together, & partakers of the fame liberty, would become the best affected, and most assured fellow helpers in warre. This was the judgement of Myris, the father of Seloolis, King of Egipt, in providing asured asistance to his some for the conquering of the whole world, which by certeine blinde prophecies was promised him. Now what little trust theire is to bee given to men, that are not acquainted one with another, Pompey that great Captaine of the Roa cier ad Arii mans sheweth in his epistle to Domitius: d Formen, saith hee, are not quickly to be eamle 8. repth 20 affembled hether by musters, and if wee had them, you are not ignorant how much they may be erelyed upon, being unacquainted to fight against ould Legions. Tet hath Leo another mixture in his files. For hee would have the ould, and new fouldiers put together in one file. Least faith hee, the ould being by themselues alone, proue weake, and of small force, and the yong disorderly, having litle experience. For the one, albeit ould, yet are well acquainted with fervice, the

other albeit young, and valiant, yet are vnskilfull.

For the Enomoties, dimerie, and file, fee the figure.

loyning of Files.

CHAP, VI.

I Oyning of Files, is when one file is layed flank-wise to another, the Leader of the first, and the follower of the second File-leader to the follower of the first, and so the rest. Every man that ranketh is

Joyning of Files

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is called Parasitates, as for example the Leader of the second file, to the Leader of the first, and so their enext followers, and the rest. As often then, as the second file, the third, the fourth, and so the rest are layd flank-wise to the first, it is named Loyning of files.

Notes.

TOyning of files is] A file of it felf will worke little effect against an enemy. For what can a man alone in front doe: Cyrus in Kenophon wisheth, that, a Kenop Cyrep. where as the Ægiptians (tood a hundred in depth, they had beene in depth a thowsand, for he, faith hee, wee should have the fewer hands to fight against. The ranke bringeth the muititude of hands to fight. And it is held, that the more hands are with conveniency brought to fight, the more is his advantage, that bringeth them. This is done by toyning fil stogether, out of which toyning, ranks fring, and ranks the more they increase, and extend themselves in length, the more hands are ready to encounter the enemy. How, as it was faid in the former chapter, that files confifted of leaders, and followers, from the first to the last , () is it in this chapter saide, that ranks consist of side men from one end of the length of the Phalange to the other : Fewe, or many men. placed fide to fide in a right line make a ranke; as in two, or three files loyned together, there are fixteen vanks of two, or three men in a vanke. And the two or three file-leaders make the first tanke, theire followers the next, and foe the rest untill you come to the fixteenth. The like faileth out in more files. Vrbicius faith that the file leaders make the b Etymol, magni front (asthey terme it) of the Phalange, which they call also the first ranke. And further, hee Gith, they that runne in an even line betwirt the two wings, the right, and the left, are faid to bee Parastatai, or sidemen. Likewife: the last ranke is called Oura, or the reare, and the commander Ouragos, the bringer-vp. So Vrbicius agreeing with Alian. Now, out of these two chapters, is a cleare distinction of the names of souldters, that by reason of theire posture, or place, in battaile make the diversitie of files, and ranks. They, that make files are Protostatai, first flanders, & Epistatai, after-standers; which are by vs commonly called Leaders, and followers. For the fetwo faith Alian make the file from the beginning to the end. Parastatai side-standers, or, as weeterme them, sidemen, make the ranks. And if you measure the length of the Phalange, you doe it by number of men in the ranke, if the depth by number of men in the file.

Of a Phalange, the length, and depth thereof: of rankinge, and fixinge; the division of the Phalange anto Winges: the place of the armed foote, of the light-armed, and of the Horle.

CHAP. VII.

THE whole bodie of the multitude of files is termed a Phalange: whole length is the first ranke of file-leaders, and is named, the from the face, the edge of the bastaile, the ranke, the mouth, the Commanders, the fore-flanders, & the head of the files.

As much of the Phalange, as stretcheth backward from the from to the reare, as named the depth. The bearing straight foorth of side-men in length, when there

ther they bee Leaders, or followers, is ranking. And the standing of Leaders and followers directlie in a line in depth, is filing.

A Phalange is divided into two whole partes beginning at the middle feetion of the front, and houlding on cleane through to the vttermost parte of the depth ; whereof the one half is called the 4 right wing , and head , the other half the left winge, and taile. 5 The two fold fection it felf, that divideth the length, hath the name of the Navell, and the Mouth. "The Light-armed are placed after the Phalange of the Armed, and behind them the Horfe. Yet if occasion require, both light-armed, and Horfe are otherwise disposed, as after in this difcourfe will appeare.

Notes.

THE whole body of multitude of files is termed a Phalange I losning of files makes ranks, and a sufficient number of files, and ranks together, make a body, which is called a Phalange. For that name is given to any entire body of an indifferent greatnesse, compasted, and wnited for fight. Hesselius deriveth the originall of theword Apo tou pelas allelois inai; from the standing of the souldiers in battaile neere one to another. Suidas in the same sence, albeit hee differ a litle in words. faith, the Phalanges are fo called apo tou pelafai anchi, of approching one necre to an other. The crest Etymologicon goeth yet a little further, and faith, that Phalanges are as it were Palanges para to pelas kai eggys cinai, as it were Pelangys. Thefe are the consectures about the original of the name. Which of them is truest, is not greatly to the purpofe. It is enough to understand, in what sence the word Phalange is commonly taken amongst Tactick writers, who, as I said, in a generall signification call any a Cafar de bell, great body of armed eathered together, and united for fight, a Phalange. Soea Cafar nameth the battaile of the Heluctians, into which they cast themselves, when they sought b Xenohderon, against him, and likewise the battaile of Ariovistus, a Phalange. So speaketh b Xenophon of the Plafium, or faunre holow battaile, into which the Gracians, that went with Cyrus the younger into Persia, fashioned themselves at their returne out of Persia. And the e Xmooth hill Same " Xenophon Saith , the horse of the Gracians , when they were to encounter the Per-Trech segon fians, or dered themselves foure in depth, informe of a Phalange. And Arrian, that * Xenophing the Persians at the River Granicus were ordered in a long Phalange, and Xenophon againe discoursing how sphicrates exercised his name, when hee expected to fight with the Lacedemonians, faith, hee sometimes lead in a wing (that is in a large depth) fometimes in forme of a Phalange, in a broad front. The first inventer of the Phalange is thought to bee Pan the generall of Bacchus his armie. Polyanus faith: Pan was the commaunder of Baechus his armie. This man was the first that invented the order of a battaile, called it a Phalange, and parted it into the Right, and left wing. For which cause Poets saine, that Pan carieth two hornes vpon his head. Befides hee was the first, that by flight, and cunning cast a feare vpon his enemies. For when Bacchus, incamping in a hollow forest, was advertifed by his fpies, that an infinite number of enemies were lodged one the further fide, hee began to be afraide. But not Pan: who cominanded the fame night the armie of Bacchus to give as great a shoute, as they could. The Rocks and hollownesse of the forest rendered it agains double to the enemy, & made shewe of a greater armie, then Bacchus had. Where with the enemy falling into a feare fled foorthwith. In honeur of this firstegeme wee faine, that Eccho is Pans loue: & the causessenight-feares, which fall pon Armyes, were attributed to Pan.

So fare Polyenus about the inventer of the Phalange. The number of the Phalange is not alwayes one. It may confifte of tenthousand, twenty fine thousand, or as many, as you lift, " Antigonus the King of Macedony had his Phalange of ten thousand. a Poyto. 16. 1. b Ptolomaus King of Egipt, of twenty fine thousand. The ten thousand Gracian b word lib. s. that went with Cyrus into Perfia are called a Phalange. What number the Helvetians, 408 C. that went with Cymu into versia are caucan vinaitained, in that number one receverant, everywhere and Ariovistus, had in theire P balange, is not precisely set downe by Cefar. Tet it creates the contract of feemeth by Cafar , that the most parte of the fighting multitude of the Helvetians cast sallo. themselues into a Phalange; and those of Ariovistus likewise: But Alians Phalange is restreyned to a certeine number, as the next following Chapter will teache.

2 The length whereof] The length of the Phalange is to bee accounted by the ranke not by the file. The file is but sixteen men deep. The ranke from the point of one wing to the pointe of the other contegneth a thousand, and twenty four men in Elians Phalange. So that the files being short in comparison of theranks, it is reason, that the length of the Phalange bee measured according to the ranke, not to the file. 10.st the tengeno | the evaluate we may not the length of the Phalange is the first Syn e some me Saidas agreeth with Allan saying, that the length of the Phalange is the first Syn e some me cho. tagma (the first ranke) of file leaders, which is ordered in a right line, stretching from one wing to another, and is called the face, and the mouth, and the front, or the edge, and the first-filing, and the first standers of the battaile. The next rowe, lyeng Parallel to this, is called the fecond ranke, and the third, the third ranke, and foe the reft. The length is termed in Greeke Mecos, to which is opposed the depth, which is named Bathos. Neither is there in true account any other dimensions in a Phalange, besides the length, and the depth, which are in this chapter mentioned by tlian. Other names are given in Greeke writers sometimes, but they signific either the one, or the

3 Is named the depth] Asthelengthrunneth along by front from one wing to another, so the depth beareth backward from the front to the reare. The depth is properly called Bathos, as I faid. f And Bathera Phalanx, is a deepe Phalange. (Died Sichlige And & Arrian faith, Alexander ordered his Phalange es Bathos, in depth. And & Anianlib. 1.2 Polybius, that the Romans made theire battaile much shorter then before, but much h polybilia.155 deeper, Bathyteran. And as it is called Bathos, for the most part, so is it by Leo Leony, Sa called also Pachos. For the depth of a sile is by him termed depth, or Thickness, Bathos son as a sile of the second son as a sile of etoi Pachos, in two severall chapters of his Tatticks; not inrespect of the file it selfe, acres 5 446. which is no more then along line, as it were, and carieth neither Thicknes nor breadth, 47. but in respect of the Phalange, the depth whereof is measured by the file. And in the fourth, the twelfth, and fourtenth chapters hee termeth the depth of the Phalange it felf (Thicknes) Pachos alone with out adding Bathos; shewing thereby, that Pachos also significant the dimension of the Phalange from the front to the reare. But where some are of opinion, that Platos, breadth, ought to bee read in those places in stede of Pachos, Thicknes, they personade mee not to bee of their emind. & For Elian & aster capso. himself giveth an Attenuation, or Thinning, (which hee calleth Lipty smos) to the Phalange: and that cannot bee understood, unless therewere in it a kind of Thicknes before. And to make it more plaine, bee faith, that this Leptylinos is, when the depth of the Phalange is gathered up and from fixteen men it becometh a leffe number. So that the Thicknes of the Phalange is the full fixteen, which is also the depth, and making of it Thinner is to lessen the depth. To a Place Platos is fittly attributed, a Place being onely superficies, which constitute of longitude and latitude. So Polise 1 polyen liber nu speaking of a valley, wherein an ambush was layde to entrap Alexander, Sath, wherein an ambush was layde to entrap Alexander, Sath, wherein an ambush was layde to entrap Alexander. the length stretched farre out, but the breadth, Platos, was narrowed to four fur m possible. longs. The name of Platos is likewise given to a place by " Polybius - But to say the coat.

truth Platos in a Phalangerather signifieth the length, then the depth, as appeareth a Leo can 5.23 by Alian after in the foure and fourty chapter. And Leo calleth the front of the Phalange Platos, and when hee would have the front enlarged, or doubled, hee giveth this word of direction Platynon pros ta amphotera mere, enlarge the front on both

4 The right wing] That which in the Engl. sh toung is called a wing, is termed in Greeke Keras a horne. Wee in our warres of auncient time divided our armies into three parts. The vantgaide, the battaile, and the rease-warde : and when wee came to fight, fet them for the most parte in an even font, the battaile in the middest, on the right hand, the vant-garde, which was called the right-wing, on the left, thereare-warde which was called the left-wing. Properly enough for our embattailing. For the battaile is, as it were, the body, and the vant-garde, and reare-warde, are the wings, which in a manner flicke out from the body, and whereby the body is supported: that, that wee call wings, the Gracians, and Romans called horns in the battaile. The word Keras Genifieth a point bearing out from the height, or ends, of any thing. It is veed for the toppe of Rocks, and for promontories, and such like; And in a Phalange it properly signifieth the two points (the right and the left) of the winges. The English words wing I am faine to retaine, because it is familiar, and in vie. Alian heere will have the wings to stretche out from the middle fection to either point (the right and left) of the Phalange, under which appellation must fall to the right wing the whole space, that beginneth at the middle in tervall, and runneth along to the corner of the battaile on the right hand, to the left, all that is comprehended betwing the same space, and the left corner of the battaile.

5 Thetw fould fection] In Greeke it is named Dichotomia : because it parteth, and divideth the Phalange into two even parts, beginning at the front, and firetching out to the reare. And Alian in the tenth chapter of this book nameth it Apotome. But heere hee speaketh of no more intervalls, or partitions, of the Phab Onofander en lange, then of this one in the midft. I would thinke there should bee more. Onofander faith: let there bee certaine intervalls in your battaile, that if your enemy advance, your light-armed after they have spent theire missing weapons, and before the Phalanges joyne, may retire leafurely in the intervalls, and without disorder come behinde to the reare. For it is not fafe for them in retiring to fetch a compasse about the whole armie, or to turne in againe on the outlide of the wings. For the enemy, hafting to come to hands, would eafily prevent, and intercept, them in the middest; so that they neither should bee able to breake through the armed, already closed for fight, and falling vpon theire owne weapons, they must needes disorder theire owne people, every man after other feeking to finde a way through them to escape the danger hee is in. Thus much Onofander; from whom wee may learne, both that theire ought to bee more sections in the Phalange, then one, and that the institution of them had this cheefe end, to receive the light armed in theire spaces, after they had skirmished with the enemy, and were by them forced to retire. I may adde, that Elian placing the lightarmed in the reare of the Phalange if you give but one fection untoit, it will be as hard for them, to advance, and frue, before the front, as it will bee to retreat after theire a Low. 18 fervice done. It feemeth, that Leo giveth three intervalls to the Phalange of the auncient Tacticks. Hee faith they opposed the bodies of the armed against the enemy, and divided them into foure parts, the right, and left, and the middle-right, and middle-left parte. Making so many parts, the parts

must be distinguished (as I collect) by intervalls, which ought to bee one

after the first body of the right wing, another after the second, which is the middle fection, the third after the third. And this Third fection is bounded with the fourth body , which maketh the point of the left-wing. For if the Phalange were whole , and entire , without more intervalls then one , how could there bee foure parts? For esteeming them by Phalangarchies , without leaning spaces betweene, it could not bee faide, there were but foure parts of the Phalange, confidering, that as well the Merarchies, Chiliarchies, Pentecofiarchies, Syntagmataes, areparts of it, as the Phalangarchies. But being distinguished by partition of intervalls, the foure Phalangarchies become foure paris, namely the right, left, middle-right and middle-left : as Leo heere termeth them. The fame a Leo feaketh after more a Loca 45.00 plainely, enjoyning his generall to seperate, and dilionne Diachorizein the whole number of his armicinto foure parts. For , as Choris fignificth a part or fewered. To Diachorizo , being derived from is , fignifieth to put afunder, or fette a part. Suidas is yet a little more cleare. A Phalangarchie, faith he, is two Merarchies b solder in the of foure thowfand and ninty fixmen. This as fome faye is the fection, Apo. chia. tome, of the wing, as other, it is a Meros. Of anneient time it was called Stra. tegia, and the commander Strateges, but nowe hee is termed Phalangarcha. Suidas maketh the wing to have a partition or fection, and faith, fome call a Phalangarchie by the name of this fection, Before wee hardout of Alian, that the wing (right or left) did fretche out from the middle fection to the outward most point of the bastasle on either side. And as the middle fection dividethine Phalange in two parts, which are called wings, fo this fection (foken of by Suidas) being in the middest of the wing divided the wing into two parts. To call a Phalangarchie (which is a body confifting of foure show fand and ninty fix men) a section, is, I confese, an unproper beach, but tolerable notwithstanding, considering that the whole foure. joide Phalange is composed of the foure Phalangarchies , and that the section of the right-wing beginnerh at the left hand file, or inward point of the right hand Phalangarchie, and endeth at the right hand file of the second Phalangarchie. And wee are not to expect the fame exactnesse of speach from souldiers, that is common to men skillfull in the liberall feiences. Souldiers, that professe action, have their end if they bee underfood of those, they commande. Articles are contemned, that clothe not the precepts of theire arts with elegant, fitt, and exact termes. Seeing then the beeinning of the lection of the wing is at the flanke of the first Phalangarchic on either fide of the Phalange, wee may after a fort terme the Phalanga chie a fection of the wing, because it boundeth the section. At least by this place of saides weemay gather, that there was an intervall in either wing, which in reason ough; to bee in the middest of the wing, and to lye betwixt the two Phalangarchies. For fo many there are in one wing. Polybius telleth of Philopamen , that , fighting against Atachanidas the Porto land Tyrant of Lacedemon, after hee had placed the light-armed, the Lanciers, and Ily. rians io untly in one front , bee added in the fameright line the Phalange diffinguished into bodies according to Merarchies and divided by severall distances. I translate Speiredon distinguished into bodyes , because Speira significth a militarie body 4. mongfithe Grecians, and is by the Grecians, that wrote the Roman hiftorie, efed sometime for a Legion , and sometime for a Cohort. And it feemeth that Spiredon is heere by Polybin put in the same sence that Eis Speiran is by Plutarch : who mentioning the reformation touching offaires mi- a Platin Philo litarie , which the same Philogamen brought in amongst the Achaians , wit pamen tech thus . theire manner and forme of embattailing was not wfually parcelled out Eis Speiran , that is (as I interprete it) in severall bodies , but viling a

Phalance, which had neither protension of pikes, nor closing of targets in front (as the Macedonian manner is) they were easily foiled, and broken, by the enemy. The mea. ning of Plutarch is (as I conceive) that the Achaians in former times vsed to order sheire Phalange in a continued length without intervalls which Philopamen reformed. and taught them to make divisions by intervalls; And the practife of Philopamen is the best interpreter of his owne counfell to the Achaians. This practife Polybius setteth downe to bee the division of his Phalange Kata tele speiredon en diastemasi into bodies distinguished by intervalls according to Merarchies. Polybius alfo, to Shewe , what bodies they were , veeth the word Tele , which I translate Merarchies. having my warant out of a Alian : who faith a Merarchie confifteth of two Chiliarchies, and conteineth two thow and and fourty eight men, and a hundred and twenty foure files : and addeth, that it is of some called a Telos, and the leader a Telarch. man may doubt feeing Philopamen made an intervall betwist every Merarchie, whe ther hee made leven divisions, or no : For in Alians Phalange there are eight Meraychies, betwixt every of which if a distance were, there must needs arise seven intervalls. To cleare this doubt wee must understand, that the Phalanges of the Gracians were not alwaies of the same number, as I noted before. Alians, and the Macedonian Phalange, consisted of sixteen thow fand and odde. Antigonus had but ten thow fand, Demetrius eleuen thowfand. Other had more , the Lacedamonians lese , and likewife the Gracians for the most part. And it seemeth, the Phalange of Philopamen was no more, then eight thom fand, and odde, in which number there are but foure Merarchies. As Alians Phalange comprehending sixteen thow fand and odde, wherein are foure Phalangarchies, hath likewise three divisions by Phalangarchies. And net in this Phalange of Philopemen , if you account the file to have but eight men (as the most Gracians vsed in theire files to have) these foure Merarchies will possess as much ground in front, as the Phalangarchies of Alians Phalange doe, the file being fixteen. Neither is it new to figure out the bodies greater, or leffe, according to b Leo commandeth his Generall, when the number will not reach to fixteen thow and (the number of the ould Phalange) to hould notwithstanding fixteen men in a file, and to divide his Phalange into foure equall parts by intervalls, excepting some few, which hee would have reserved for other vies. To conclude Elian him self seemeth to acknowledge more sections, then one, when in the tenth Chapter of this booke hee speaketh of the middle section mese apotome. For this word middle being a relative, can not bee understood with out two other at least, which are placed on either side. And all the figures, that I have seene, of a fourefold Phalange allowe three fections , and no more , that is to faie , one in the middest, and the other two in the wings. What the distance and dimension of shese sections ought to bee , I finde not set downe. But , if I might have leave to consecture, I would thinke, they ought to bee large enough for a troupe of horse, framed wedge-wife , after the Macedonian manner , to paffe through ; the last ranke whereof being fifteen (as appeareth in the twenty chapter of this booke) and the horse placed in the reare of the light-armed it is needfull, if upon any occasion they were to bee drawen through to ferue in the front , the distance of the section should bee sufficient to give them passage with out disorder. And I am the rather confirmed in this opinion, because I see the intervalls betwint the Roman maniples so proportioned, that the Principes might passe through those of the Hastati , and the Triarij through those of the Principes. But I proportioned out the intervalls to the horse, not to the light-armed, for that the light-armed way bee divided into severall bodies without inconvenience, but any breaking of the

horse-wedge breeds ha confusion in the whole troupes Tet where a troupe of home may find way, there may a Genturie, or Colours, of light armed finde also way.

6 The light-armed are placed after] The light-armed were diverly a helian up as placed, sometimes before the front of the Phalange, which kind of placing is after. ward called Prataxis, sometimes on the wings, and it is called Hypotaxis, sometimes between the files of the armed froming in a right line with them, and it was called Entaxis, Sometimes in the reare after the Phalange, which was called Epitaxis, All thefe are poken of by Alian heereafter in this booke, b There is another kinde b Adianese of placing the light-armed, when they are throwne into the midft of the battaile, being bollowed for that , and other purposes. Heereof Alian-likewife treatech in this booke heere after. And albeit the most viual embattailling of them hash beene in the wings, yet the bestowing in the reare according to Strans minde hath allo advantages. First it concealeth theire number, which because they are shaddowed with the pites standing before, can hardly bee discerned. Then it is easte from the reare to drawe them to any place of fervice without diforder, bee it before, on the wings, or behinde the reare. Further, it will not bee ease for the enemies borle to charge them . the armed standing before for a sure defence. Lastly from the reare they shall bee able at all times to anoye the enemy, before the battaile ionnes; as soone as the battaile ionnes, and all the time of fight. Neither doth this manner of embattailing want examples of the ould historic of the Gracians. The embattailing of Cyrus theelders armie, in Xenophon , hath the light-armed e xenop Cyrop in the reare. I will fet downe the effect of Cyrus words at large because they con ud. 6 167. 16. teine the ordering of an armie to fight according to the sudgement of Xenophon. Cyrus then being to trye a battaile with Cræsus thus directs his Conimanders: you, faith hee, Araspes take your place in the right wing, as you now doe, and you the other Myriarches, as you are acoustomed. For when the fight is once a foote, noe Chariot may change horses; and command the Taxiarches, and file-leaders, to order theire files every one divided in two parts Phalange-wife, that is each half fronting one with another in a right line. A file conteineth fourean twenty men. Then faide one of the Myriarches, doe you thinke Sir, that wee shall bee able, in this order, to encounter fo deep a Phalange, as the enemies: Cyrus answered, the Phalanges that are deeper, then may with their armes reach the enemy, are they fitt thinke you either to annoye the enemy, or profitte theire frindes? For my part I could wish those, that are ranged 100 in depth, to bee in depth a thowfand. For fo should wee have the fewer to fight with all. The number, that I give for the depth of the Phalange, I doubt not, but will entirely ferue for vie, and maintaine a joynt fight in every part. The Darters I will place after the armed and after the darters the Archers. For who will fett them in front that confesse themselves vnable to maintaine a fight hand to hand? Howe then will they hould theire grownde, if they bee fett before the armed, but being in the reare, some with darts, other with arrows, fent over the heads of the armed, will greatly endammage the enemy. And it is cleere, that wherewithall foever an enemy is endamaged, with the fame a mans owne fide is eafed, and relieved. You therefore order your felues, as I have appointed. As for the captaines of the Targetiers I will have them, and theire files, stand likewise next the armed in the Reare, and after them the Archers. And you the chiefe Commaunder of the Reare

enjoyne the other reare Commanders every man to have an eye to those ynder him, that they doe theire duties. And let them sharply threaten the newligent, and in case any man treasonably for sake his place, punish him with death. For it is the worke of Commanders both with word, and deed, to encourage those, they command, & to make the cowards more afraide of them. then of the enemy. This is your charge, but you Euphratas, that command over the Engines, fee that the beafts, that drawe the Engines, and Turrets, followethe Phalange as neere, as may bee. And you Daouchus, that have the charge of the baggage, come with your manye next after the Turrets, and let your Serieants seuerely punish them, that hast to much before or come to flowly after. And you Carduchus, that rule the wagons, wherein the women are order them next the baggage. For all these, comming in the reare, will both breede an opinion of multitude, and give vs meanes to lay an ambush, and will force the enemy, purposing to encompasse vs, to setche a larger compasse; which the larger it is, soe much the weaker must hee be. And you Artabasus, and Artagersas, each of you leade next after these, the 1000, foote you commande a piece. And you Phranuchus, and Afiadatas, order the Chiliarchies of horse you commande not with the Phalange, but set them by themselues apart behind the wagons; and when you have done it, repaire to vs with therest of the commanders. But you are to bee in a readinesse: as if you were first to fight. And you the commanders of the Camel-riders place your felues after the wagons, and doe what Artagerfas shall bidde you. And you the Commanders of the Chariots, after lotts are cast, lethim, whose lotte it is, range himself, and his 100. Charriots, before the Phalange; the other two hundred, one of them is to follow, the Phalange on the right fide, wing-wife, the other on the left. So farre Cyrus. I hauerehear fed the words at large, principally to shewe that the light armed in ancient time were placed sometimes behinde the Phalange; and yet further also, to represent the manner of embattailing an armie, which was then visuall. For heere have you let downe the place of the Myriarches, & of the other commaunders, which was in front, then the place of the pikes, of the light-armed, of the reare commanders, of the Engines, of the baggage, of the wagons, wherein the women were, of the gards for the baggage, both horse, and foote, of the Camels, and of the Chariots. And albeit many of these particulers agree not with our manner at this day (for wee have neither Engines, nor Camels, nor Chariotts, nor slings, nor darts, nor arrowes) get is the reason of warre alike in all, and in our placing also the fitnesse of service prina Troop Crop cipally to bee reflected. The place of the horfeis heere omitted by a Xenophon, which may pays 15.6. be supplied out of the Consultant of the force of the horfeis heere omitted by a Xenophon, which may be supplied out of the seventh booke, where Chryfanthas Generall of the horse is faide to fland on the right wing of the Phalange with half the horse, Hystaspas on the left with D. Kened. Crop. It am a vor to the resulting of sme E manange with many the course of the significanced, the fame of Xenophon tellifi-th, that it was the Loyptian manner to order theire light-armed behinde, & that in the battaile betwixt Cyrus, and Crasus, the Agyptian archers, and darters, were with drawne frords compelled by the reare-commanders to shoote, and east theire darts. e Recoops. Hill. "Thrafibulus in his fight against the thirty Tyrants fet his armed in front, and in the grach 1 472D reare his targetiers, and darters, without armor, and those that cast stones. And it seed xenoth hist, meth by the words of Thrasibulus to his owne side that the Tyrants did the like; The Tyrants, faith hee, have brought vs to a place, in which by reason of the steepneffe they must ascend, and can neither cast stone, nor dart, over the heads of theire owne people, that are embattailed before. Where wee contrarywife, whether wee throwe jauelins, or darts, or frones, shall easily reache, & wound

many of them. The stones and darts of the light-armed were to size over the front of the battaile, and that could not bee unleffe the light-armed were placed behinde: I will adde one example onely out of Plutarch to shew the service of the light-armed in the reare. a Plutarch discoursing of the battaile fought betwirt Sylla, and Archelaus, the Gene- a Plusius sylla rall of Mithridates, at Cheronaa, hath thus : Afterwards the foote forces came to joyne, the Barbarians holding out, and charging theire long pikes, and endevouring with locking theire targetts close together, to mainteine the order, and closenes of their Phalange: The Romans on the other fide, casting away their darts, and drawing their fwordes: putte by the enemies pikes in choler. to the end they might come quickly vp to them. For they espied, opposed against them in front 15000. of the enemies slaves, that were enfranchised by Proc. amation of the Kinges generalls . & enrolled emongest the armed And when the Roman Armed coulde hardly breake them , by reason of theire depth , and fast knitting together; and of theire bouldnes in daring (contrary to the nature of flaues) to abide the danger of the encounter, the arrowes, and darts cast in aboundance from the Reare, made them shewe their backs, and fall in a route. Wee finde heere, that the light-armed from there are effected that, which the Armed could not. Thefe flaues endured the shocke, and could not bee broken by the armed, and yet were defeated with Arrowes, and darts, from the Reare: Nowe for the distance that should bee between the bodies of the light-armed, and betwixt them, and the reare of the armed, Alian faith nothing: I make noe doubt, but there ought to bee as great (if not greater) as in the fections of the armed. For wee must understand, that the sections, that served to sever the Phalangarchies one from another, must runne through the light-armed in depth to the reare. And by them are the Epixenagies to bee devided a funder, as the Phalangarchies are: with Epixenagies answer the Phalangarchies for number of files, albeit not in number of men. Likewise there ought to bee, a greater face in ranke, and file, then the armed had For the hand. ling of missive weapons, require more liberty of place, then the managing of a pike or Sworde. A dart can not bee fent for ciblie without running two, or three, fteppes in the delivery of it. A fling being throwne, and circled about the head, before the stone, or bullet, can bee forced out to any purpose, will not suffer a neere stander by. In bowes, and arrowes, is the like reason, if they be wied as they ought. Besides the light-armed in their fight are tied to noe certainty of order, or grounde, but fight differsedly : Soe that the more grounde they baue, the fitter they are for service. In which respect a large intervall croswise between the armed, and them, should serve to purpose it having liberty for their motion forward, and backward, as occasion should require.

7 And behinde the Horfe:] Lhaue not read in any greek historye, that the horse-men in a sett battell, haue beene ranged behinde the light-armed. The vsuall manner was to place them in the bings Soedid Alexander before he paffed the River Gra- b Leocap 4 5.5 nicus: foe at I flos, foe at Gangamela: Soe did Antigonus, against Eumenes, and Eu- F & 14D menes against Antigonus: Soe 5 Ptolomeus against Demetrius, and Demetrius against Pto- Curt lib. 1.61 lumeus: and in brief all the Macedonians, and the Gracians, before the Macedonians were e Died Siculib accounted of for matter of armes: vn!esse some speciall cause moved an alteracion. And, 19.615 626. as I shewed out of Xenophon, before all theire times. Lyrus albeit, hee fet the light Armed 1 in the reare, notwithstanding hee beessowed the horse wings: Alexander having he know Crops. I ye can passed the River Ister as long as hee marched in the corne lande, placed his horse behinde his Thrianub. Phalange, when hee entred the Champeigne, hee fest them on the right wing : and D.E. lastly cast his Phalange into a Plasium : and ordered his horse before. In the Corneland, they followed (for feare of an Ambushe) In the Champian they marched on the

right wing, because on the left, the Phalange was secured by the River; before the Plas fium that being over-layde with the multitude of the enimye, they might have a fure re-Arrian No. 2. treate to the foote. The same Alexander, when hee was to fight the Battaile of Isso with Surius 14.2 s.4 Darius, as long as hee was in the streights, marshalled his horse after his foote. But in marching forward, comming to open ground, when he might give full length to his Phalange, hee placed his horse on both the wings. But the reason of setting them behinde was in the streightnes of the place : and hee being incerteine how neere the enemye lay, was loathe to put them to hafard, before they had liberty of grounde to order them selues, and might have asiftance of the foote. For otherwise it was an ordinarie matter in marchino (wit is the manner also at thu day) to dispose the horse half behinde, and half before. Schooth, hill. I will content my felf with one example. When I gestlaus retourning out of Asia, passed through Thessalie, the Thessalians, allies of the Thebans, followed him, and fought to endammage his armie to theire vetermost. Hee had before disposed his march into a Plæsium, with the horse half in front, and half behinde, nowe when the Thessalians ceased not to molest him, by falling upon his reare, hee fent to the reare all the horse of the vantgarde, excepting those, that attended his person. Either party prepared them selues to fight. The Thessalians holding it not sure with Horse alone to incounter armed foote: Turning about their faces, began leafurely to retire, and the Lacedæmonians flowly to followe, Agefilaus, perceaving the errour of both, fent the best of his horse, that were about him, commanding them to signifie to the rest, that they together should goe, and charge the Thessalians with all speede, and give noe respite to them, to turne their faces. The Thesialians contrary to their expectation being hottly charged, fome fled, other fome turned about towards the enimy, other some indevouring to turne, were surprised by theire enemies, that by that time were come vp to theire flancke. Nowe for the reason of Elians placing the Horsein there are, I have no emore to say, then, that from thence they might bee soone drawen to all places, front, flanke, or where soever the enemy is like to distresse vs. For it hath beene the forecast, of all generals to fashion their battails according to the figure the enemy hath before chosen. Examples are so plentifull, I neede not alleage many. Onely I will remember one latine fory of placing horsein the reare. L. Lentulus , and L. Manlius Acidinus in Spaine being to fight with the Illergetes, and Ansetans, and other Spaniards, that had revolted from the Remans; in this very kinde of placing horse in the reare imitated, and gotte the advantage of, and defeated theire ene-Live Cook ; miss. Livy hath the flory, and writes thus in effect : The next day at the rifing The like w., of the sonne the Spaniardes being all armed, and set in order, shewed theire done by M. Va-battail, about a mile from the Roman campe. The Ansetans were in the midequal the tien dest the Illergetes held the right winge, other obscure people of Spaine the again institute deter the Hergeres neid the right winge, other oblicure people of Spaine the standard of the s by the sammer is to charge. The Romans Embattailed after theire wonted manner, Onely then 30.88 i.C. imitated the enemy, in leaving open waies, for the horse betwixt the legions. y salls Lentulus imagining that partye, and none other, should have vse of theire Lentulus imagining that partye, and none other, mountaine, in commaunded seasons, horfe, that first postessed these intervals of the adverte battaile, commaunded the limit of the seasons are presented to the seasons are Cornelius the Tribune to give direction to the horsemen, presently to charge through, the foote on both fides came to blowes, and the fight was hard, when the Roman horsemen passing through the Spaces, and falling upon the middest of their enemies at once disordered the battaile of foote and shut ep the wayes against the Spanish horse; by which meanes, after noe long

fight, the enemy was vtterly defeated. Where Livy faith the Romans embattailed after theire wonted manner, his meaning is they ordered them selues in Maniples. or Battalltons, as tree now terme them (for that was theire woont.) But when hee addeth, they imitated the enemy in leaving open waies for the horse, betwixt the legions. Wee must understand that a legion was thus embattailed: * First they di- a Livydened. b. vided theire legion in to thirty Maniples, ten of the Hastati : ten of the Principes, and ten of the Triarij. The ten maniples of the Hajlati, they fet first in an even front, leaving soe much distance, or voide grounde betwixt every Maniple, as a Maniple it self tooke up in standing. At a reasonable space behinde, were the Principes placed in as many maniples : but foe that theire maniples stoode directly behinde the worde spaces of the Hastati. And against the bodies of the haft att, they left likewife spaces in the Principes to the end, the Haftatibeing overlaid, might retire within those spaces : or else themselves might advance against the enemy, through the intervalls of the Hastati. Lastly at a larger distance behinde the fe were the Triary fet, and divided with spaces betwirt every maniple, which spaces were great enough to recease the Principes, in case they retired also. Now the Horse being ordered in the reare after the Triary, if from thence, they had gon to charge the Enemies front , through the spaces of the Triary , they must of necessity , have fallen woon the Maniples of the Principes whoe were fet directly against the intervalls or spaces.

To give therefore free passage to theire horse, the Roman Generals removed the maniples of the Principes from theire ordinarie place, and bestowed them, in a right line, after the maniples of the Hastati, and made an open lane. (asit were) from the reare of theire battell to the front So that nothing hindred the horse, but they might freely fly up to, and fall up. pon the enemies from. And yet I take not Alians meaning, to be , that the Horse set in thereare, should during the time of the fight still remaine there. For foe would noe great fervice bee had of them. But hee placed them there the rather to avoyde confusion in orderine the foote. And that after theire embatteling, they might bee led from thence to any place. front or flanke, or where soever they might yeeld most vie. For in the fifteenth and twentish chapter, he would have both light armed, and hor fe foe placed, that they might answer all attempts of the enemy. And in his caution following, hee faith, if occasion require both horse and light-armed, may bee otherwise placed. That they were visual. ly placed in the Wings, I have before shewed. The examples declare they were placed in the veare Cometimes:

Of placing in the from there are also examples. The Lacedamonians at the battaile of b xmoch. Lin. Leuctra against the Thebans placed theire hor fe before their Phalange, and tried their fortune With hem, and were beaten, before the foote toyned: The Persians at the River Gra- e Ploutebiath wicus, esteeming theire Horse to bee theire chiefest strength, opposed them apon the bancks and bit it is against Alexander, that was to passe over, and embastavilled their foote behinde the horse. And Alexander encountered them first with his Horse, before his foote could get over One example more I will adde to shewe the reason, why Horse are sometimes placed before the front of the Phalange of foote. d Eumenes being to fight against Craterus and Neoptolemus, 4 Phanels in A both greate generalls, that had ferved under Alexander in all his Warrs, ordered the fight is Bumenibod. thus: Because hee vnder-stood, that theire Army confisted of twenty thowfand foote, the most parte Macedonians renowmed for their evalour, and skill in fight (In whom they fet theire greatest trust) and of more then two thowfand horse; and knewe his owne foote, albeit they were as many in number, yet all to bee ramaffes of diverfe kinds of people, and that his owne horse were five thow fand, with exceeded the enimy both in number, and valor, hee determined to hasard the battaile vpon his horse, before the two Phalanges of foote should come together: Advancing therefore with his horse farre before

a Tenedian : Craterus stood in the right wing of his owne horse, and pla-

ced Neoptolemus on the left. And feeing the enemies horse comming forward, with greate fury charged them first, and fought brauely. But his

horse failing under him, hee fell to grounde, and it being not knowne, whoe hee was by reason of the medly, and throng of those, that gaue backe, and

fled, hee was trampled vnder foote, and ended his life after a strange manner.

By his death the enemy tooke courage, and encompassing their adversaries on all fides, made a great flaughter, and the right wing, after this manner,

with might overpressed, and put to the worst, was faine to fly for succour to

the Phalange of foote. In the left winge Neoptolemus stoode directly against

Eumenes, and the mutuall fight of eche bredde a greate emulation betwixt

the generalls, and a fervent defire to come to hands. And being eafely knowne. both by theire horse, and other marks, they flewe one vpon another; and out

of theire fingle fight made away to a confequent victorie. And first they af-

failed one another with fwords, and after fell into an vnlooked for , and won-

derfull Monomachy, for being transported with anger, and mutual hatred,

quitting the raines of theire bridles, with theire left hands they eache feazed. and tooke hold vpon the body of other, which hapening, and the horse conti-

nuing theire careare, and springing from under them, they both fell to the

grounde, neither of them could wel arife by reason of the suddaine, & violent

fall, and of the heavines of their earmor. Yet Eumenes got vp first, and pre-

vented Neoptolemus, stricking him on the ham. The wounde was wide, and

his strength of footing thereby failed, & soe lay as one, that had noe vse of his legge, being not able to raise himself because of the hurt : notwithstanding.

courage overcoming the weaknes of his body, hee lift vp himselfe vpon his knees, and hurt his adversarie in the arme, and thighes, giving him three

wounds. But none of the wounds were mortall, and they being yet warme, Eumenes with a second blowe hitting his necke, slewe Neoptolemus out-

right. Whilest these things were a doing the rest of the horse fell together.

Many were flaine on either fide : some therefore falling , other being woun-

ded, at the first the daunger was equall. Afterward, when the death of Neop-

tolemus was openly knowne, and that the other wing was put to flight, cuery

one shifted for himselfe, & made towards the Phalange of soote, as to a strong

wall of defence to saue himselfe. This was the iffue of the battaile. Wherein Eu-

menes, placing his horse before his foote, because hee held them his strength, and with the

trieng the hazard of the day, shewed him self, both in councell, and action, a greate gene-

vall. And Craterus on the contrary side, albeit highly esteemed emongest the Macedoni-

ans, as one, that had with great sufficiency served Alexander in all his warres, jet failed

in indement, in that hee chose rather with his horse to encounter the stronger parte of his

Enimies forces, then with his Macedonian Pholange (which Eumenes himfelf feared) to

trie his fortune. For as it is a pointe of forecast to knowe amans owne advantage, and wse

it . Socit is noe lese judgement, to knowe wherein the enimye is stronger, and avoyde ys.

Eumenes did both; for hee wfed his owne horfe, which were his frength, and brought to

pale, that Craterus his Phalange did him noe good, in as much as they never came to

fight. Craterus failed in both, in that hee neither brought his Phalange to fight, nor yet

provided sufficientlie to encounter Eumenes horse; which exceeded his in valour, and

number, so appeares both, that horse were placed before the front of the soote; and also the

forie gives the reason, why they were placed there.

Of the number of the armed foote, of the light-armed, and of the Horfe.

CHAP. VIII.

Now are wee to lay out, what number the armed foote, the light armed and the Horse ought to bee, and how particularly ordered, and how vpon occasion the Battaile may speedely be transformed into divers shapes, & formes, and what discipline vsed for the motion of the severall parts of it. Wee cannot with any probabilitie fet downea precise number of forces to be levyed. For as much as every man is to proportion his levie according to the importance and qualitie of the warre in hand. This yet must not escape vs, that such anumber is to bee chosen, as will fitt : the divers shapes, and transmutations of our Troopes. As if in case were were to double, or to multiply, and manifoldly enlarge the length of the Phalange, or els to leffen, and drawe it vp into 2 narrower roome. For this cause choice is made of a number, that may be teparted into half continually, till you come to one. Hence is it, that most Tadick writers would have a Phalange to confift of fixteen thousand, three hundred, eightie, and foure armed foote, and of half fo many light armed, and of half as many Horle, as light-armed. For 16384. may bee reparted continually into half, till you come to one. Therefore for proofe, and Examples fake this numbers is admitted. And where wee have allotted fixteen men to every file, the whole maffe will arise to one thousand, swenty, and foure files.

Notes.

THE Chapter before spake of the parts and dimension, of the Phalange, and of the place of the armed, the horfe, and light armed. This treatesh of the number that goeth to the Phalange. In choise of which number, Alian faith consideration is not soe much to bee had of multitude, as of fitnes for fervice. For fuch a number as cannot aprly bee disposed of for fight, is rather meanes of confusion, then of order without which not fight can be maintegned : Therefore such a number is to bee chosen as will serue.

I The diverse shapes, and transmutations of our Battaile] Fuery motion in the battaile makes not a Transmutation, or diversitie of shape. In turning of faces to the one hand or other there is not other shape of the Phalange, then was at first : As a man turning his face any way, the same proportion of lineaments remaines that Was in him Defore, Soe likenife in countermarch or wheeling after the Countermarche; or wheeling is done every fouldier if he keep his right distance; and remaine in file and ranke; bath she place hee had before : And soe noe transsiguration of length or of depth followers. The motion then that Alian meanes to make Transmutation , are Doublinges: For Whether. you enlarge the length, or depth, of your Phalange : you straight induce another shape. A long fronted Phalange, and a Herse differ much in forme. If you will make of the ordinarie Phalange a herfe, you are to double your files foe often, as your thinke convenient for the length of your herfe. Then if from the Herfe, your would returne it to the first forme, you are not to cease doubling Ranks, till you have gained that forme : likewise if of your ordinarie Phalange, you would make a long fronted Phalange, your rankes are to bee doubled, and by continuing your doublinge, you may drawe out what length you will. And

centrarywise, by due doubling your files againe, you come to the first forme : How much you double your Ranks , See much you take away from the depth of your Phalange : as on the other fide, doubling of your files, diminisheth the length. For the purpose, your Phalange is fixteen deep, double your Ranks ; the depth hath but eight men ; double it once more, and it hath but foure. Soe is the Phalange confifting of foure ranks, & every ranke, hath fourethousand, and niney fix men in it : But the length is foure times as much as it was. In like manner doubling your files (which in Elians Phalange are a thou-Sand, and twenty foure) the first doubling loseth fine hundred, and twelve files and foe many remayne : the second seven hundred, and sixty eight, and two hundred fifty fix remaine : and foe many men have you in a ranke. But where the Phalange was but fix. teen deepe, nowe in the second doubling it is become fixty foure deep: If you please to reduce it to the first forme, two doublings of ranks will suffice. Heere wee must understand that doubling ranks , is not to make twice foe many as they were before , but to give swice so many men, to every ranke, as they had before by infertinge the even ranks into the odde; as the second into the first, and the fourth into the third, and the fixt into the finith, and the eight into the feventh, or . The vie of doubling I will shewe in my notes wpon the twenty nine chapter of this booke. Elian therefore would have his Phalange of fuch a number as may bee reparted continually into halfe, till you come to one: which number hee faith to bee fixteen thou fand three hundred, and eighty foure. And at arisethout of the Multiplication of one by two foe still doubling the product, till you have made up the full number, of sixteen thou fand, three hundred, and eighty foure. And as the Multiplication by two begetts this number, for it being divided by two continually, it may beereduced at last to one: which is the thing, that Alian aymes at. For the numbers, that have not equall division by half, leave some supernumerary men in the Phalange: (which) in doubling will disorder both files, and Ranks: Every man acquainted with the lowe countrie militarie exercise at this day, knoweth, that when there is an uneven number of files, the odde file supernumerary brings a difference , and cannot bee doubled in the fore as the reft are: As in fine, feven, nine, elenen, feverall bodies of files. Two, fix, eight, sen, may well bee doubled, and become two, three, foure, fine files a piece : but the fifth, Seventh, ninth, eleventh, must bee severed from the rest of the doubled files; and serve to noe purpose, being not matcheable in depth with the rest after theire doubling. The same reason is of ranks: Now Wohen Alian faith , that this number in a Phalange may bee devided by half and reduced as last to one, wee must with all understand, that the file of the Phalange in fich divission, ought to be either of eight, or sixteen men a piece. For noe number under eight, except foure, or two (which fitte not the depth, of a Phalange) nor betwist eight, and fixteen, is divisible by half, till you come to one. Noe nor aboue fixteen except it bee produced out of the duplications of sixteen. A file of 12 comes nearest. And of that mamber was the file of Cyrus in Xenophon. Such a file notwithst anding by druison of two flaies at three, and can descend noe lower. Ten was the old file of the Grecians, and it was a Importion, called Decas. And albeit after ward upon better con (deracion they enlarged the number of the file to twelue, yet they reteined the name of Decas still But ten receiveth but one divifion, and goesh downe ward noe further then five. The vneven numbers under fixteen cannot bee divided at all. Vales by fraction. As thirteen, which if you will devide by halfe, she quotient will bee fix, and there remainesh an odde man over : of which number, if all she files of the Phalange should bee, you should have a thousand, two hundred, and fixty, which will receive noe more, then two doublings wishout a fraction. If then the files be aboue fixteen, and under thirty two, you cannot divide them continually by half, but you must faile of the manner, that Elian Speaks of. As for the number of fixteen thousand, abree hundred, and eight y foure, albeit of is felf it is dini fible by t to till jou com. or difeend

to 1, yet we must not consider it apart, as an abstract by it selfe, but as it numbreth, and is applied to the Phalange. In which respect, is gineth a 1024 files of 16 deepe, which files will fill hold out the doubling, till you come to one file.

3 A Phalange to confift of 16384.] Elian (out of the most Tattick writers as be professeth) will have the Phalange of sixteene thousand, three hundred, eighty and fouremen. I have noted before that a Phalange may be more, or leffe, than this number. But Itake this to be the number of the Macedonian Phalange. Appian feemes to testifie a Appian in with me. thus he faith: Antiochus whole army conlifted or 70000 men. Of Synasinor.B. which the chiefest strength was the Phalange of Macedonians, conteining 16000 men, ordered according to the forme, that Philip and Alexander had before vied. He placed them in the middle, dividing the 16000, into 10 equall parts, in every of which parts was 50 men in front, and 32 in depth, and vpon the flanks of every part 22. the shew of the Phalange was like a wall, of the Elephants like turretts: hitherto Appian. I have translated He Phalanx, He Macedonon according to the word, the Phalange of the Macedonians, where the right meaning is, the Macedonian Phalinge. For it confisted not of Macedonians, but was armed, and ordered, after the Macecon'an manner. For how was it possible for Antiochus to wage, and haue in his service 16000 Macedonians, being neuer himselfe King of Macedonia, and the King, that then nus (namely Philip the Conne of Demetrius) was his enemy, and in league with the Romans? Besides Appian hath in expresse words: the Phalange was armed, and ordered, according to the inftitution of Philip and Alexander: whose manner Antischus mought well reteine, confidering he was lineally descended from Seleucus, the succeffor of Alexander in the kingdome of Afiria: And Seleucus had beene in the feruice of Alexander in the whole conquest of Persia. Livy faith alfo, they were armed after b Liv. Decad. the Macedonian manner. Whereby a man may inferre, they were no Macedonians: Hee + lib.7.141. A. feaking of the same battaile (which was the battell of Antiochus against L. Scipio) hath shu: The Kings army was mingled of fundry nations, and divers with diffimilitude of armes and aides. There were 16000 foote armed after the manner of the Macedonians. They were called Phalangites. This was the middle of the bartell, and in front divided into 10 parts, which parts were diftinguished by placing 2. Elephants in each intervall. The battell had 32 rancks in depth. It was the principall strength of the Kings forces, and both with the other shew, and also with the Elephants, which were eminent amongst the Armed only, brought with it great terror. Liny faith the 16000 were armed after the Macedonian manner, and were called Phalangites; Appian, that there were 16000 ordered and distributed according to the ordinance of Philip and Alexander. Liny, and Appian, both agree, that there was 10 parts, and enery part seuered with intervalls, and had 32 menin depth, which is the Macedonian file once doubled. Livy speaketh not of the number of the length of the Phalange. Appian Saith plainely there were 50 in front, of every of the 10 parts, which amounts to 500: for 10 times 50 makes 500. Now if you multiply the length of the Phalange which is 500 by the depth, which is 32, you have the 16000, whereof Livy and Appian Spake. But yet refleth a doubt, in the difference betwint both these authors, and Alian. Livy, and Appian, both giung but 1 6000: Elian 16384 to the Macedonian Phalange. For Livy, we are not much to infift vpon him, who being a Roman (we may probably coniecture) was halfe a firanger, in the Art Tacticke of the Gracians, and that, which he wrote, he had from others; perhaps no better skilled in the Same Artihan himselfe. Appian was a Gracian (for so those of Alexandria in Egipt accounted themselves, after Ptolomy the first had established that Crowne in his family) and as his historic shewesh, well acquainted with the order the Gracians held in embatte-

128. B.

b Xenoplu.

ling their armies, and therefore we may the better rely upon his authoritie. Who albeit hee first affirmed the Phalange was of the number of 16000, yet after in numbring the depin and length alone, he findeth 16000: and further expounding his owne meaning he Beweth, there were more upon the flanks of the ten parts, into which the Phalange was duided. His words import: That Antiochus divided his Phalange into 1 Oequall p.rts, gluing enery part in front 50 men, in depth 32; which being multiplied together, make up the 6000. He addeth; And in the flanke of euery part he fet 22. If the meaning be, he (et 22 uponeach flanke of enery part, the parts being 10, and the flanks 20, the number will arise to 440, where Elian alloweth no morethan 384. But if 22 were added to one of the flanks of each division, which also being collectively taken are flanks in the plurall number, we hall come short and finde no more than 220. Tet whether fense of both you admit, it is plaine, that Appian attributeth more, than 16 thousand, to that Macedonian Phalange. And it may be, there is an error in the number of the 23, and that it ought to be written 32. For if Antiochus had given 32, as he gave 22, to one flanke of every part, and let 22 upon the uttermost flanks of every winge to strengthen them, of the 12 times 32 had arisen the inst number of Alians Phalange; which number is the fittest, for vie, and for division of the Phalange in all doublings. The armed foote then, according to Elian, ought to be, 16384. The light armed.

Halte fo many | The armed among st the Gracians, were accounted the ftrength of the field, which was the cause their number was greatest. For you shall not finde in their battailes for the most part, that the light armed amounted to halfe the number of the armed: The fait of Cyrus sheweth what account be made of light armed: * Xeno-Cyrar, lib. 7. phon reporteth it thus: He led with him the Lydians, those whom he saw to take delight in Armes, horse, and chariots, and willingly doe, what they were commanded, he gaue armes to, of those whom he saw followed him against their wils. he gaue the horses to the Persians, that were his first companions in Armes. All that followed him vnarmed, he exercised to the sling, because he reckoned that weapon most seruile of all others. How much you increase the number of the light armed, fo much you diminish the number of the armed, and by consequent somuch weaken your field. For the light cannot maintaine any stable fight, but in case of danger Cyropabbié. they are forced either to shew a faire paire of heeles, or else retire to the armed for succor: Tet ferue they for many vestoyned with the armed. And the proportio that Elian fetteth downe, namely to have halfe as many of them, as there are armed, standeth to good reasen, & wee. The Romans notwithstanding, were more sparing in their light armed de allowed not about the sa part of them, or litle more, to the armed. The Legion conteined (faith e Polishine Polishius) 4200 tootmen. Of these they chose 600 Triarians, 1200 h. stati,1200 Principes. (which come to 2000) and the rest Velites, which were 1200. And the Velites were the same in effect amongst the Romans, that the light armed among st the

(which is a small Target,) and daris; the fword a spanish sword, the Target a litle round Target, a foote and a halfe (for fo Casaubon correcteth Tripedon) in breadth; the darts in the steale a footelong, and a finger thicke, and the head almost a foote long. And Livy mentioning the skirmishes, that fell out between the Albangaris horfemen of King Philip of Macedonia, and Sulpitiusehe Roman Conful, comparethboth the training together, telling that either party had their light armed toyned to their horse, and that comming to fight, the Romans had the better. So (sith he) neither the Kings horse, vnaccustomed to a stedfast fight, were able to match the

Græcians, albeit their arming somewhat differed. Elian before shewed, that the Græ-

cian light armed had no manner of defensive armour, but offensive only, as bowes, daris,

d Poll 5 155 or fiones. d Polybius describeth the Armes of the Velites to be a Sword, a Parma,

Roman horse, nor yet the foote skipping and leaping here and there, and almost halfe naked in their kinde of Armes, to be compared to the Roman Veles, having a Target, and a fword, and being armed sufficiently both to defend himselfe, and affaile his enemy. The number then of Elians light armed, ought to be 8192, and these being ranged behinde the armed 8 deste (so they are sittest for service) will make

5 Halte as many horse, as &c.] The horse are in number 4096, and proportioned to the foote (comprehending the light armed) as 1.106. The armed foot, and light armediogether make 24576: the horse 4095. And this was Alexanders proportion, a Diodor Siwhen he moved first against Darius. For he had about 30000 feete, and 5000 horse, culliber. 501. when he mouse pris against Dattus. For me manuscript 3000 foote, 4500 horse. or not many more, as Diodorus saids. b Inftin gates him 32000 foote, 4500 horse. b Inftin.lb.II. Tet this number held not alwaies among it the Macedonians themselves, I meane Alex-639. anders Captaines, that possessed his k ngdomes after his death. Thereason may be, that in Civill warres they made their levies, not as they would, but as they could. In the bat- c Diod. Sicul. saile betwist Eumenes, and Craterus, (I spake of that battell before) Craterus had b. 18.644. 20000 foote, & 2000 horfe; Eumenes had 20000 foote, & 5000 horfe. Craterus the proportion of 1.10 10; Eumenes of 104. d Antigonus fighting against Ett- d Diod. Sicel. menes in Cappadocia, had in his Army aboue 10000 forte, and 2000 horse; Eume-lib. 16.649. nes had as before. Antigonus horse were to the foote, as 1.10 5. " The same Antigo- e Diod. Sicel, nus fighting against Alceras, the brother of Perdiccas, hadin his Army 40000 foote, ib. 18.651. and more than 7000 horse; the proportion well nigh of 1. to 6; Alcetas had no more than 1 6000 foote, and 900 horse, failing much of Elians number. Antigonus in & Diod. Sicul his second battell against Eumenes, had 28000 footmen, and 800 horse, which is 1. to lib. 19.665. 3. and halfe; Eumenes had 3 5000 foote, and 6000 horfe, very neare Elians proportion. Many other examples are to be read in Diodorus. But (as I faid) these are Ramasses proceeding not of chosee, but of necessitie, which forced them to take such, as came to hand; as it alwaies falleth out in soddaine leuies. And it seemeth the number of horse (allowed to the foote by Elian) was King Philips proportion; considering Alexander wied it after bereceived his armie from Philip, who by prameditation, and fore-choice, g Diod Sicul. bad gathered it together with intent to invade Persia. And yet I finde h that Philip hb. 16, 110. hir felfe, when he fought against the Athenians and Bectians at Cheronea, bad more h Diod. Sign than 30000 joote, and 2000 horse; which is 1. to 15: and in diners other fights differed from Elian in the number both of horse, and foote. But the question is not, what was done, but was best to be done. And the number that Elian speaketh of, suites his Phalange hest. For Philips device being to cast the horse into wedges of 64 horse a pecce, and into 64 troupes; the greatest ranke of ech wedge being 15, will in there are equall the front of the armed, and of the light armed; not in number of files (for the files of the footewere 1024. and the greatestranke of the horse, no more than 960) but in quantitie of place giving to the horle, standing in their order of 6 foote betwiet man Eman, the 128 cubits of furplulage toward the difference of the horfes bodies, and to-Coman, the 120 (notes of introducing towarding ungerente of the things of the Romans : Pelyblib 6. allowed a farre lefferate of horse to the foote. In a Legion, according to Polybius his 472. C. account, there were of Citizens 4200 foote, and 300 horse; of allies, and confederates 4200 foote, and 600 horfe. In a Confalar Army were 2 Legious of Citizens, and 2 of Allies, which came to 16800, a number not much differing from Elians Phalange of foote. Of horse 600, Allies 1200; in all making 1800; which commeth much short of 4095, (the number Elian alloweth to kis Phalange) and holdeth proportion of about 1. to 9. The reason of this difference, may appeare in the fact of & Eumenes's who not & Diod Sicul. much trufting his forces of foote against the Macedonians (accounted the best Souldiers i.b. 18. 647.

The Tacticks

of this ege.) prepared himselse a sufficient number of tiorse with them to make a counterballance against the Macedonian Jose. And it hash beene the manner of Generalis of ancient time, if they trusted their Foote-forces, tomke the less account of Horse: if they distrusted them; to encease the number of their horse.

asyrupted them sto encrease two number of what more. The Romanes trulying to their foots, required the leffer number of horfe. The Grecians had the greater number of horfe, both for the easile before recited, and further because they had continually warre with Barbatians, that placed their considence in horse; as the Petitians, and the inhabitants of the leffer Alia.

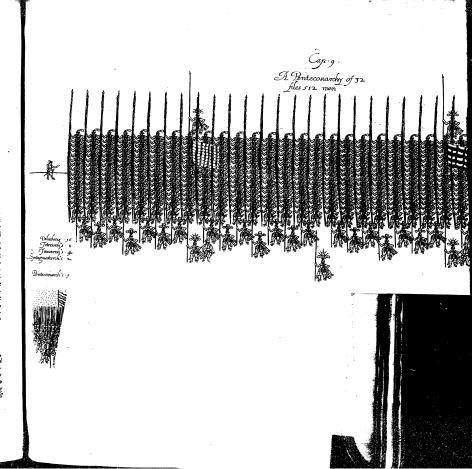
The names of the seuerall parts, and of the Commanders of the seuerall parts of the Phalange, and of the numbers under their commaunds.

CHAR. IX.

He files are ordered into bodies, which have every one a proper name. For two files they call a Dilochie of thirtie two men , whose Leader is tearmed Lilochita. Foure files - a Tetrarchy, and the Leader thereof Tetrarcha having charge ouer 64. men. Two Tetrarchies 3 a Taxis of 128. men, and 8. files, and the Leader thereof hath the name of Taxiarcha. Two Taxies goe to 4 a Syntagma of 16. files, and 256. men; and the Leader thereof is called Syntagmatarcha. A Syntagma of 256. men is called of some a Xenagy, and the Commaunder Xenagos. In cuery Syntagma of 256. are fiue superordinary men , viz: 6 An Enfigne, 7 a Reare commaunder, 8 a Trompetter, 9 a Sergeant, and a 10 Crier. This Syntagma feemeth to haue 11 2 Tetragonall forme of 16. men in length, and 16. in depth. Two Syntagmaes make 12 a Pentecosiarchy of 512. men, and 32. files, the Leader whereof is named Pentecofiarcha. Two Pentecofiarchies make 13 a Chiliarchy of 1024. men , and 64 files: and the Leader is called Chiliarcha. Two Chiliarchies are called 14 a Merarchy of 2048. men, and 128. files, whose Leader is named Merarcha. Of some this part is called a Telos, and the Leader thereof Telarcha. Two Telarchies make 15 a Phainnearchy of 4066.men, and 256.files, the Commander whereof is called Phalangarcha. Yet some call it a Strategy, and the Commander Strategos. Two Phalangarchies 16 a Diphalangarchy of \$192. men, and \$12. files. Therearethattearme this part 17 Meros and it is one of the wings. Two Diphalangarchies make a fourfold Phalange confifting of 1024. files, and 16384. men. So have you in the whole Phelinge of armed foote two wings, foure Phalangarchies, eight Merarchies, fixteen Chiliarchies, thirty two Pentecostarchi's, sixtie foure Syntagmatarchies, one hundred twentie eight Taxiarchies, two bundred fiftie fix Tetrarchies, fine hundred twelve Dilochies, one thou and twenty foure files.

Notes.

Hether to have been elhewed, the manner of arming, and leaving of Souldiers, filing, parts of a Phalange, the number of the armed, light armed, and horfe-men requisite to a Phalange, the hound be the armed, light armed, and horfe-men requisite to a Phalange. This Chapter containes, as it were, the matter, of which a Phalange is compounded; that is the fewerall bodies Militarie, or dred, and is med together, to make up the perfect forme of it. The febodies are many, and arife one of its ming files by doubling



The Tacticks

thimselfe of afficient number of Horse with them to make a counterlacedonian fone. And it hash beene the manner of Generalis of rulfed their Foote-forces, to make the lesse account of Horse: if they mercasse the number of their harse.

nered; the number of their norse.

whing to their foote, required the leffer number of horse. The Grerumber of horse, both for the cause before recited, and further beuall warre with Barbattans, that placed their confidence in horse;
the inhabitant of the lefter Alia.

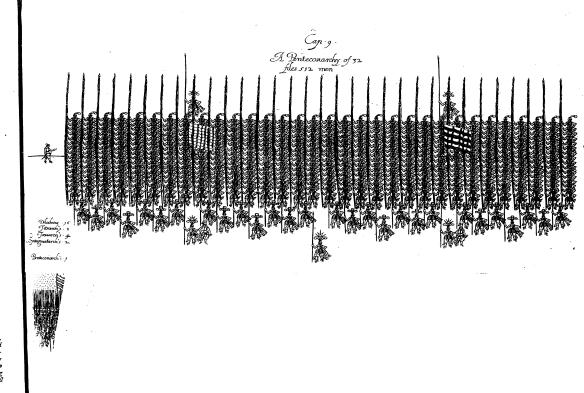
be scutrall parts, and of the Commanders of the scutrall parts of thalange, and of the numbers under their commaunds.

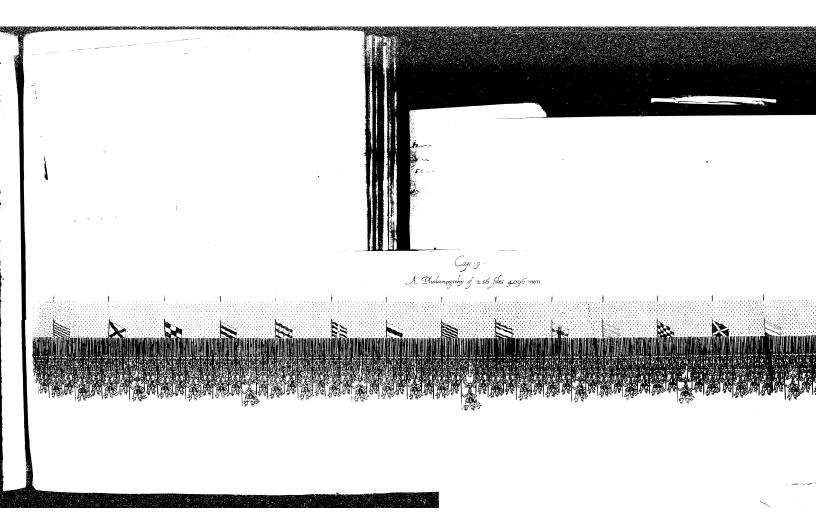
CHAR. IX.

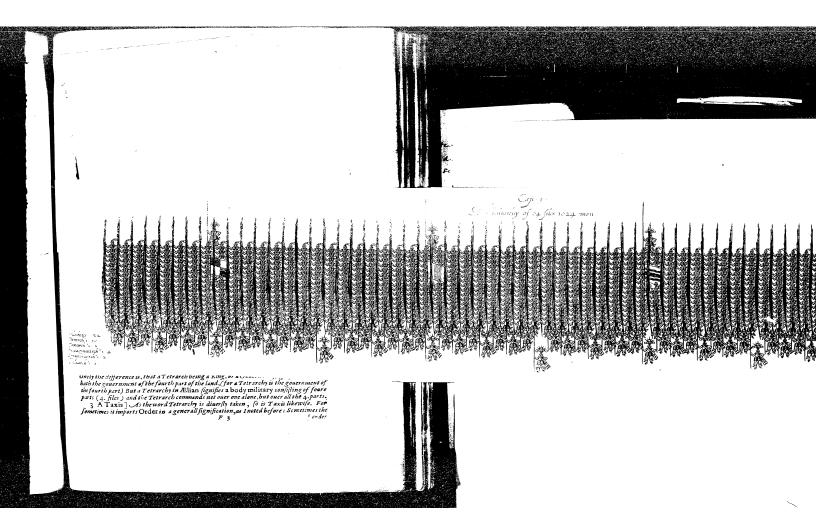
ordered into bodies, which have every one a proper name. For y call a Dilochie of thirtie two men , whose Leader is tearmed Diles = 2 Tetrarchy, and the Leader thereof Tetrarcha having charge Two Tetrarchies 3 a Taxis of 128. men, and 8. files, and the Leathe name of Taxiarcha. Two Taxies goe to 4 2 Syntagma of : 6. en; and the Leader thereof is called Syntagmatarcha. A Syntagma lled of some a Xenagy, and the Commaunder Xenagos. In cuery are fiue fluperordinary men , viz: 6 An Enfigne,7 a Reare comnpetter, 9 a Sergeant, and a 10 Crier. This Syntagma feemeth to have orme of 16. men in length, and 16. in depth. Two Syntagmaes flarchy of 512. men, and 32. files, the Leader whereof is named Two Pentecofiarchies make 13 a Chiliarchy of 1024, men, and 64 ader is called Chiliarcha. Two Chiliarchies are called 142 Merarchy nd 128. files, whose Leader is named Merarcha. Of some this part and the Leader thereof Telarcha. Two Telarchies make 15 a Pha-6.men, and 256.files, the Commander whereof is called Phalanne call it a Strategy, and the Commander Strategos. Two Phalanhalangarchy of 8192. men, and 512. files. Therearethattearme es and it is one of the wings. Two Diphalangarchies make a fourpniisting of 1024. files, and 16384. men. So haue you in the of armed footetwo wings, foure Phalangarchies, eight Merarchies, bies, thirty two Pentecostarchi's, sixtie foure Syntagmatarchies, one hunbe Taxiarchies, two bundred fiftie fix Tetrarchies, fine hundred twelve ousand in enty foure files.

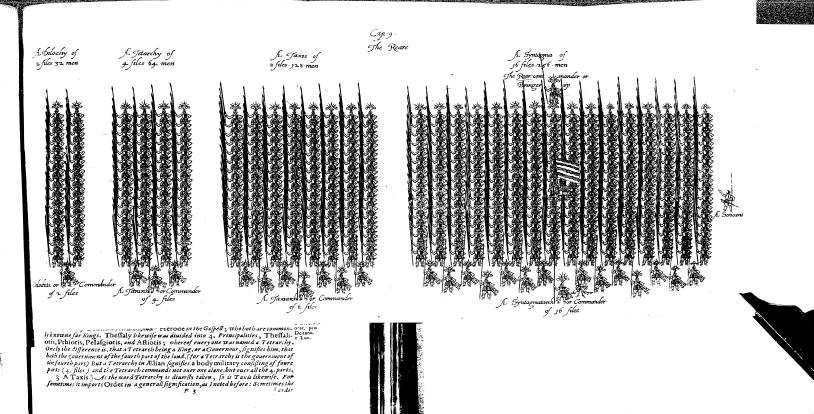
Notes.

ue beenesowed, the manner of arming, and lenying of Souldiers, filing, its of hies, ioyning of files, and ranking, the local forme, and ange, the number of the armed, light-armed, and horie-men require. This Chapter containes, sait were, the matter, of which a Phalmage is at is the seventh bodies Militarie, or are an antisyned together, to make up of it. The loodes are many, and arise one of toyning files by doubling









fill their number, and have every one a severall Commander. The least is two files toyned sozether, which is called a Dilochy; And because there are in Phalange 1024. files, there mult also bee \$12. Dilochies, which confift of two files a peace. If you double this body of two files, and make thereof a body of foure files, it hath an other name, and is called a Tetrarchy, of which Tetrarchyes there are 256 in a Phalange. Double againe these 4. files; and make 8, the body is called Taxis. And these eight files, being doubled bring out the Syntagma of 16. files ; which is a fquare number of men, 16. in the front , and 16. in the flancke. And so proceeding still in 6. doublings more, you come at last to the fourefold Phalange containing the number of 16284. men, and 1024. files. Now as in the Phalange there are 10. bodies out of these doublings, the Dilochy being the first, and the fourefold Phalange the last : So doth Elian, appoint for every body a Commander, who albeit they severally command, each his owne troupe, yet are they subordinately one under an other, the leffer under the greater till at last the source ainty of the command rest in the Generall of the Army. 2 The Dilochites are directed by the Tetrarches, the Tetrarches by the 2 Xenoph. Taxiarches, the Taxiarches by the Syntagmatarches, the Syntagmatarches by the Pentecoli-Cyroped lib. arches, and they by the Chiliarchs, over whom are Merarches, and over the Merarches the Phalangarchs, and over them the Commanders of the winges, or Diphalangarches, and she foueraigne of the Armie or Generall is the highest, and last. The number of these Commanders a man would think were to no great purpose being in all (the 2. Diphalangarchies therein comprized) 1022, besides the file Leaders, which standing in the heades of their files, amount but to two men more; that is to 1024. For formany (as I have faid) are the files of the Phalange. But if the conveniency be observed, it will not seeme impertinent. For all the Leaders being in front, (therefore are they called Leaders, because they pre- b Xenoph, cede, and thereft follow,) it makes both a gallant flow, and that rancke being as it were, Cyrop. lib. 2. the edge of our battaile, not only serves to hew a sunder, and rent a pieces the forces of our 85. C. enemie; But also standeth as an assured bulwarke of defence before the rest of the Armie. that followeth. And it is well zoted by Leo, that the multitude of Commanders & Leo cap. 4. (in orderly dinisions) both signifies, that there are many worthy and valiant men § 13. in the armie: And is a meanes to keep the Souldiers in greater obedience, and to gine vindoubted effect to all directions. Of what qualitie and disposition, those Leaders ought to be, you may (ee in the * fourth Chapter of Leos Tactickes. Onely I will * Leo cap. 4. adde, that as they are higher in dignity, so ought they in vertue and valour exceede those, that are under their command.

1 A Dilochy] Confifts of two files 5 for so signifies the word Dilochia: and the Lea-Dilochia. der is called a Dilochite.

2 A Tetrarchy] Of four files; and the Leader is called a Tetrach, one that hath the command of four files. And here I must once more admonth, that in the words of divers signification, we must not weigh, what is the proper signification, but how they are ofed in this Art, and booke.

For the word Tetrarch (ignifieth sometimes a King: as Helychius hath: and d Deise d Ciceto in Irwiin Tully is called a Tetrarch, and e Herode in the Gospell; who both are common-ora; point however for Kings. The flat by the wife was divided into 4. Principalities, The flat beitaro. otis, Pethotis, Pethotis, and Aftiotis; where of every one was named a Tetrarch; onely the difference with a Tetrarch being a King, or a Governour, signifies him, that but the government of the fourth part of the land, for a Tetrarchy is the government of interpretable part). But a Tetrarchy in Ælian signifies a body military consisting of foure parts (4. files) and the Tetrarch commands not over one alone, but over all the 4. parts, 3. A Taxis Method or the word Tetrarch; is diversly taken, so is Taxis likewise. For sometimes it imports Order in a general signification, as Inoted before: Semetimes the

11.6;9 E. g Xenoph.de expediib.4. 202. C. 2 c F. 666 B. : Xenoph.Cv top. h5. 2. 47 D. k Polystalib 3.5 to ml; hi-

f Polyb lib. 3. forder of a battaile: 8 sometimes a company of any kinde of Souldiers, foote, or herse: 225. B. & lb. as Taxis Peltaftarum, Taxis Equitum ; Sometimes a fingle Phalange , as in h Arrian mention is made of Taxis Ooni, Taxis Perdicce, and Taxis Meleagri &c. who were Phalangarches, as the flory shewith. I Sometimes for all the armed, as Taxis Pha-325 B. Car langitarum: Sometimes a rancke of men standing embattailed, as in Thucidides, who discrebing the battell of the Lacedemonians, (aith the front (which he calleth the first h Arran lib. 2. rancke teen proteen Taxin) confifted of 448. But in a more special signification it is taken for a band of Souldiers. And in that signification the number varieth. In Xenouhon, it comprehendeth a hundred men : What the number of the Athenian Taxis was, I finde not delivered by any Writer. That they had Taxiarchs & Polyenus sheweth plainely. And if a man with leave might geffe, I would imagine their Taxis confifted of 250 men : For I finde in the same place of Polyenus , that they had Chiliarchies. Penrecoliarchies. Taxies, and Lochagies. I have before themed, that Lochos in Xenophon is made (ometimes of about 100, men. Out of which may be inferred with probability, that Taxis, being the next degree about the Lochagie, hath the double number, or more: The rather because a Chiliarchy having init a 1000, the Penticosiarchy must have 500, and by likelihood the Taxis 250, as being the next office under the Pentecoliarchy. But what foeuer the Taxis of the Athenians, or of other people was, Alian maketh his Taxis up with 128 men, and 8, files; which is a double number to the Tetrarchy. With whom Suidas agreeth, giving 2. Tetrarchies to a Taxis: and faith it confilts of 128 men. The Commander of the Taxis is called a Taxiarch, as the Commander of the Tetrarchy is a Tetrarch. Here I am to note by the way , that the Interpreter of Xenophon translateth Taxiarcha, the Commander of a Cohort; where Taxis in the ftraighter signification cannot be taken for a Cohort because a Cohort differeth much in number, having in it at the least 500. and odde men, where the Taxis. when it is greatest bath nomore then 128. And 1 Polybius saith plainely, that foira is the Greeke word, that fully expresses the Romane Cobort.

l Polyb.lib.11.

m Polybius calleth a Con Diod Sicul lib. 13 391.

• Cap. 31.

o Suidas in

p Suidas in

4 A Syntagma The word commeth of Syntaffo, or Syntatto, to place together: and a Syntagma is a body compounded of many parts artificially put together. " But it hort Syntama, may be taken for any body in the armie. "Diodorus reports of Dionysius the elder That lib. 11 C41. C. after he had divided his whole Armie, (which had in it 30000) into three parts, he imployed two against the Carthaginian Campe in diuers manner : himselfe tooke the Syntagma, or third part, which confifted of mercenary Souldiers, and led against that quarter of the campe, which had the Engins. * Ælian alfo veeth the word diversie; For he calles the whole armie by the name of Syntagmata, in the plurall number, and sometimes Syntagma in the singular. And further gives the same name to a file; " Suidas likewife discribing the length of a Phalange, faith, it is the first rancke (Syntagma) of file Leaders, which stretcheth forth in a right line from winge to winge. Whereby appeareth that which the Logitians affirme, (which I touched before) that there are more things then names of things: And that fit names cannot be given to all. The names that have beene given by antiquity, to expresse the severall bodies of the Phalange, are to be reteined by us, as proper enough to fignific the thing they meant. Neither are we to vary from them, wnleffe we our selves can invent better. The Syntagma that Elian here mentioneth, is framed of two Taxies, that is of 16. files, & of 256 men. The Commander of it is named a Syntagmatarch. And where he addeth, it is called of some a Xenagy, we are to underfland that ? Xenagos was he (among st the Grecians) that had the command of a band of strangers, (as he that levied strangers was called 9 Xeriologos) and the band it felfe was called a Xenagy. Why the Syntagma (hould have the of Polyb.lib.1. appellation of Xerragy, Icannot dinine; whilesse the resson were, because it was about the

number, wher of strangers made their companies, that served amongst the Gracians. And Ithinke, and shall till better information, that the body of the light armed called a Xenagy mentioned bereafter, had that name likewise for the same reason. Now of all the bodies in this Chapter mentioned, there is none that commeth fo neere the companies wfed at this day, as doth the Syntagma, for (excepting that our numbers differre, and are in divers places more, or leffe) the offices of each are alike. Tou have in the Syntagma a Lieutenant or Reare Commander; fo in our Companies. In the Syntagma, is an Enfigne, and an Enfigne-bearer; the like in our Companies. In a Syntagma is one Sergeant, our Companies have more. The Syntagma had a trumpet, and our Companies for the most part have two drummes. We onely want a Crier, which every Syntagma among ft the Macedonians had. What the wfe and place of all the Officers was , I will straight

5 Five superordinarie men;] Namely the Ensigne the Reare-commander, the Trumpetter, the Sergeant, and the Crier of whom we last spake. That which I translated, superordinary, is in Greeke Ectactoi. Suidas gines the reason, why they were for Suidas in called : because (aith he, they were not numbred as part of the battaile, that is ordered in Edacos. files & ranckes. As Xenophon faith of Miriarches, Chiliarches, and Taxiarches, & (Xenoph. Cr. siber Commanders (whom Cyrus called to him) that they were not recounted among ft top, lib. 3.78. themiliarie numbers, and might depart from the Phalange without altering the forme thereof. In the files they could not be, because they (bould so increase the number in the files, and make one longer then an other, and hinder doublings, and other motions, besides the deformity, they should bring in, in making the battaile uneuen: And a file of themselves they could not make. The like disorder would they bring in the ranckes, where they could not conveniently stand, unlesse some body filed with them, being much short of a file of themselues. Besides their imployment is to stirre here and there apart, as they are commanded: where they of files, and ranckes never move fingle, but iointly, as shall feem good to their Commander. And albeit these five bee removed from the battaile, yet remaineth the battaile without them entire of it felfe, and in perfect forme, as though there were no neede of them, when notwithflanding their vie is otherwise fo needfull that although the battaile may be, it cannot well be without them.

An Enfigne Our wfe is to call the Enfigne-bearer an Enfigne for breuities fake; As a Drummer, a I rumme, a Trumpetter, a Trumpet; and that not abfurdly. A distinction will easily appeare in common speech, by the application of words of circumstance to the on:, or the other. The end why enlignes were divised appeareth in. Diodorus Siculus; Diodor. Sibe giving divers reasons, why the Ægyptians (whom he accounted the ancientest of men) cul. lib. 1.54. were carried away with superstition of worshipping Beasts, after the manner of the Countrey, hath amongst other words thefe in effect : A fecond caufe the Egyptians give, because of old time being in divers conflicts thorough disorder in their Armie, vanquished by their borderers, they had recourse to the innention & bearing of Enfignes in their troupes. They fay therefore, that preparing images of the beafts, they now worthippe, and fastening them to the ends of long staues, the Commanders caused them to be borne aloft; by meanes wherof enery man knew of what troupe he was. And seeing this good order availed much to victorie, they conceiued, that the beafts were the cause of their safety. In recompence whereof they ordered, that none of these beasts should be killed, but be honoured with religious care and worship. Ensignes were then deuised for readines to direct souldiers in particular, whither to resort in time of sight. "Celans practisse agreeth hereto: "Celan de he selling of his owne souldiers disorder hath thus: Whatsoewer part they came into bell gall. he. by chance, and to what Enfigne foeuer, there they staied, least in feeking their

a Vereibb 2 owneriney might happily lofe the time of fight. And "Vegetius enlargeth the cause wruing thus: The ancient warriors perceiving that in time of fight the order, and embattailing of an Armie was quickly brought in route, and confusion, to avoide this inconvenience, divided the Cohorts into Companies, and appointed an Enfigne of every Company. So that in the Enfigne was written, of what Cohort and of what number in the Cohort the Companie was. Which the fouldier feeing, or reading could not eftray from their Companions, though the tumult were neuer fo great. * Leo also maketh this the vse of the Enfigne: Wee command x Leacap 6. \$ 18 :9 20. allo, faith he, that the heads of the Enfignes of every Company or Band be of one colour, and that the filke of every Turme, or Drunge, have a colour by it felfe. And to the end that enery Companie may with ease know their owne Ensigne, other markes and tokens are to be added to the heads of the Ensignes, that according to Turmes, and Drunges, and Companies, they may be knowne. But in any cale, let the Enfignes of every Turmarchy be different one from an other. & cleare to be discerned, that the fouldiers may know them even at a farre distance. His meaning, as I take it, is, that every great body, or regiment (bould beare in their Enfignes a fewerall colour, and that the Companies of that body should likewise hold themselves to the same colour in their Ensignes: So notwithstanding that (as the vie is authis day) the Enfignes of every Company (bould have a feuerall marke to bee knowne by , besides the colour in generall. For (o both the Regiment may be quickly discerned, and one Company with facilitie be distinguished from another. What the forme of the Ensigne was. we may out of the former place of Diodorus fee : The Ægyptians, faith he, counterfea. ting the shape of those Beasts, which they worshippe, fastened the Portract to the end of long staues. Y Xenophon testifies the like of the Standard of Cyrus. y Xcnoph.Cy rop. lib. 7. Cyrus (faith be) commanded his army to cast their eyes vpon the Standard, and to follow it with equal pace, and in order. The Standard was a golden Egle ftretcht out voon the end of a long staffe. Which Standard is at this day the Standard of the Kings of Persia. The Ensigne was nothing else, but the sigure of some beast advanced high upon the end of a long staffe. As of an Egle, of a Wolfe, of a Horse, and fuchlike; and cometimes they added peeces of coloured filke fastined under these images to make a greater difference betwint the Enlignes. Whether our Enlignes at this day, made of many ells of Taffaty, or the ancient Enfignes of the Gracians (Imay also aide of the Romans, for they observed the same forme) are the better for vee, I will not now diffute. I may not with standing freely far, that the stronger reason weighth for the Ancient. For besides the authoritie of such excellent wits, as they were, and so exquisite in heir inventions, the reason of the lightnes is to be preferred : Besides the winde bath no such force over them, and they neither hinder the Souldiers, that stand next by entangling, nor by flavoing in their faces, nor take away the fight of fuch things as are to be observed and regarded in the field. For the matter whereof the Enligne was made, 2 fee luftus Lipfins in his Commentaries to Polybins. As for the armour of the Enfigne-bearer (especially the Enfigne-bearer of the armed) Itake it (for I have no an-D. log. 5. theritie therein) that he had the fame defenfine Armour that the Souldier which fought under the Ensigne had (excepting the Target) both to assure himselfe from the flying weapons of the light armed, and from the pike and (word of the armed, in case the bat-

taile were entred and pierced as farre as the Enfigne. For it was no reason, he should

carry a Target, left both his hands should be bound, the right with the Enfigne, the left with the Target; and fo he have no vie of either against the enemy. And in the left

hand I would give him a speare, or Janelin, (not a pike, which cannot be weilded with one

hand) for his owne defence, and so offend the enemy. Which weapon, I have read En-

fignes

figures of ancient time did beare. What the Enfigures place was, whether in front, or in the middest of the Battaile, I fee it controversed. Particlus afficiency affirmeth, that i Partic Parall. the Enlignes were placed in the middelt of the front, and hid 8 files on the right, and percentions. Southeleft, to the end they might be seene, and followed by all. That Enfignes were and first invented to be a marke of severall bodies military in an Arms, I have before shewed. But it followeth not thereof that they were placed in the front in time of fisht. For being in the middle, they no leffe gaue notice, what the body was, than in the front. The reason of following is of leffe force; Inasmuch as the Souldier well knoweth whom to follow, though he had no Entigne at all, the Commander alwaies with his motion giving him direction, when to advance forward, when to turne his face to the right, or left hand, when to countermarch, when to double, and when to wfe all other motions military. And the Commanders were therefore called Leaders, tecause they went on before, and the Souldiers followed after. So that the Enligne, inregard of following, neede not to be fit in the front. & Testin exercising the troupes, and in marches, I finde, that the Enfigne & Lee Cap. 7. May in the front, tegether with the Captaine, Crier, Trumpeter, and Guide. Pat \$1.8 Captain. Iske the reason to be, because being in the middest, and having neither file, nor ranke with the rest, they might happily bring a confusion, and be a hinder ance to the changes, and disers floures of the B. staile. When the time of fight was the Enfigne retired to bis place, that is to the middeft. For fo h Leo interpreteth himselfem his precept of closing files : h Leocap.; which must be done, faith he, not onely by File leaders in front, Commanders of five, and \$ 33. Bringers-up in the Reare, but in the middest also, where the Enligne standeth. And Trasher agree to Leo herein, because I see, it was the manner of the Romans alse, to place their Enfignes in the middeft of their Maniples. From whence came the appel- Lipfous ad Laions of Antelignani, Souldiers that flood before the Enfigues, and Politignani, that Politich lib. 4. food behinde. Besides the Ensigne being in the front, the Ensigne bearer may some Dial 3. gasclap, who falling the Ensigne goeth to ground, and is in danger of loofing; which wasthe greatest dijerace among the Romans, that might befall. Lafty, & Elian him-k poster c. 20. selfe in plaine words placeth the Cornet of horse farre from the stront. For speaking of the ordinarie Horse-troupe, he saith is is to consist of 64 horse, the first ranke of 15 horse, the 2 of 13, the 3 of 11, the 4 of 9; descending still, and diminishing 2 horse in eury ranke, till you come to one. He addeth; he shall carry the Corner, that standeth in the second ranke next the ranke-Commander on the left hand: which ranke is the second ranke, himselfe declareth, making the ranke of 15 the first, the 2:he 13; which is the 7th from the front, and next the reare but one. If the Cornet have no place in front, why should the Ensigne, considering both serve to one we, and the reasons of Reing, and following are equal to both? And albeit 1 Suidas place the Enfigne, the 1 Suidas in Crier, the Trompet, and Sargeant, before the Battaile, the Lieutenant in the reare, Edicos. he is not with standing to be understood, of the times of marching, or of exercise, which I noted before. For what (bould that Rable of vnarmed (being 4-in enery Syntagma, and in the whole Phalange 256.) doe in the front in the time of fight , but onely peffer the thef n of the Armie: who therefore have the front, that they may make speedier way into

7 A Reare-commander] Was the same that a Leutenant is with vs. He commandeth the Souldiers in the Reare, no leffe then the Syntagmatarch in the front, and had bis place in the Reare. What the duty of a Reare-communder was , I have Bewed out of a Cyrus words in Xenophon. And a Elian afterwards setteth it downemost m Xenoph. plaint. He was armed, as the rest of the armed of the Syntagraa, namely with Pike, and Cropuladi Target, and with such other armes, as I have described in my notes upon the second political.

Chan-

8 A Trumpet 7

a Saides in

8 A Trumbet. The invention of the Trumpet is attributed to Tirrhenus Hercules fonne. But the different wfe of thefe officers is worth the noting out of . Suidas: The Crier, faith he, ferueth to deliver directions by voice, the Enfigne by Genall, when note taketh away the hearing of the voice: the Trumpet by found, when thorough thicknes of dust a fignall cannot be discerned: The Sargeant to bring such things, and dispatch such messages, as his Syntagmatarch commands. So that the cofficers were held all necessary for a Company, the one supplying the defect of the other, and ferning for we when the other failed. The Trumpetthen was to be Wed according to Suidas, when neither the Crier, nor Enfigne could doe feruice. With the Trumpet was the fignall given for the Campe to remove, for the Campe to lodge. By the Trumpet the Souldiers were taught their time to fight, their time to retreate. The Trumpet (et and discharged the watch. From the Trumpet came the measure of the Marche, and the quicknes, and flownes of Pace. In briefe, the Trumpet did all the offices that the Dromme doth with vs at this day. Whether the Trumpet or Dromme, are of most viein the field, I may not now dispute. Onely I will fay that the Gracians and Romans the most expert and indicious Souldiers, that ever were, held them felues to the Trumper, and never wfed the Dromme. The Dromme was first invented by b Polyendib i. Bacchus, who, as b Polyenus reporteth, fighting against the Indians, in stead of Trumin Beechos. 1. pets, gaue the fignall of Battaile with Cymballs and Drommes. From him it came Community, to the Indians, who wfed it alsogether, as Curtius noteth in the battell betwixt King Alexander the Great, and Porus. The Dromme of Parthians is described by a Plutarch in the life of Crassus; and by Appian. And Leo faith, the Saracens. e App. in Par- who inwaded Christendome, and infected the Turkes with their Superfiction, ordered their fights by the Dromme. From this Easterne Asiaticall people it was be ought into Europe; and now the generall custome is among stall Europæan Nations, that the foote f Leo cap. 18. have Drommes in the field, the horse Trumpets. And yet for the Trumpet, I can-Plutarch in not fay, that all the Gracians held themselves precisely onto it. 8 Plutarch much commendeth the Lacedemonian manner of toyning with the enemy, and writeth it is in this fort: When the King hath offered the Goate (that was the Lacedemonian factifice, when they were to give battaile) hee straight commands all the Army to h restitutes. Crowne their heads, and the Flutes to found the measure of h Caller: And himselfe withall beginneth the ' P.an; (the fong they vied when they were to charge) and Poliux lib 4. advanceth first against the enemy. So that it is a braue, and no lesse fearefull thing CAP. 10 6 2. to behold them pacing according to the measure of the Flute; neither diffoluing hann price to their order, nor thewing any aftonishment of minde, but mildely, and joyfully approching the danger of conflict, dividing out their Marche to the found of the instrument. For it is not likely, that men so demeaning themselnes, can be transported with feare, or choler. Nay rather they must needes have a setled minde full of hope, and affurance, as if God were present on their fide: thus Plutarch. Out of whose words it is cleare, that the Lacedemonians weed no Trumpers in fight, but Flutes, and made them their instruments to dannee, as it were, the measures of warre k Times, tib. by. For they wied an essie, k and slow pace, framed 1 to the cadence of the found; which may well be refembled to the folemne measure, in dancing. " Athenaus rehearin Procie 6.1. feth out of Herodotus, that the Lydians ofed the like. But he addeth; that the Cretans made choice of the Harpe for their instrument of warre; as though it had beene peculiar to that nation. " Paufanias teftifieth the like of the Lacedemonians. " Polybius goeth not fo farre, but affirmeth onely that the Cretans, and Lacedemonians in flead of Lacon es. 193. Trumpers brought in Flutes, and measures into the warre. And if it were so that the

Lacedemonians ved Harpes, it is like, they tooke them from the Cretans. For I finde

in 9 Plutarch, that Lycurgus brought many of his lawes from Crete, and had great p Plutarch in familiarity with Thales the Cretan, whom he also fent to Lacedemon, to make an over-Lycugo. samulating of his lawes, that were thermouly finished. Ict a Diodorus a Diodorus a Diodorus Siculus reporteth, that the Lacedemonians ofed alfo Trumpets in their Battailes. He lib. 15. 475. writing of a fight that was betwint the Thebans, and Lacedemonians under the leading of Agelilaus; wfeth these words in effect : There was aftrong fight betwixt them a long time, and at first Agefilaus had the better; but afterward, when the Thebans issued out of the City at all hands, Agefilans seeing the multitude, caused the Trumpet to found a retreat. The figne of retreat bere, was given by Trumpet, and is femath the Lacedemonians had the wfe both of Trumpet, and Flute. Of the Polyen lib : Fluce in pacing toward the enemy to toyne battaile; of the Trumpet in all other mil tary in Proces & a. Fine in paring toward the entering to style commune; by the Attiniped in an other interior of the figurality, like (leave before nated it) as the refs of the Gracians gate by Trumper, Pau and the figurality (leave the first of the Residence o The place of the Trumpet in the time of the Bastaile was within the Phalange by the Eafigne. Thucydides placeth the Flutes of the Lacedemonians within the battale, Thucyd. 16 Enfigne. 1 Inucycloses putern we contest of the Landente Mandalbert Police 5 383.

where they can finde no roome, conlesse they shand by the Ensigness. And albert Police 5 383.

Live of the Contest of nus faith, the Flure led the Army, and went before, yet that is to be underflood in the in Proces to nus faith, the Finte lea me Army, and were very ere, from the Trumpet place by marche. For meafe of a Marche, or exercife, " Leo alfo gineth the Trumpet place by Leo co. the Captaine in front. When the fight commeth, heretreth himselfe to his place in the & s.

9 A Sergeant.] The word Hyperetes signifieth a Minister, (which is all one with the French word Sergeant, as appeareth by the interpretation of our Law it felfe, wherein the Sergeants, next degree to luftices, are called servientes ad legem. Ireteme therefore the name of Sergeant, because it is familiar amongst souldiers. And a Sergeant bath the same office in our Warre that Hypenetes had among It the Gracians. What his duty and service should be, is declared out of " Suidas. There were of x Suidas in thele officers, as well among the borfe, as the foste, as appeareth in 7 Xenophon. The Editor. of mation and worth of their places is expressed by the same Xenophon. "Cyrus held Xenophon. the Sergeants in warre, faith he, worthy of no leffe honour, than a meffengers, 191. A. and Embassadors in peace. He conceived that they ought to be trusty, skilfull in 2 Xmoph. matter of warre, vnderstanding, quicke, swift, industrious, and voide of seare; be-44.D. sides endued with all qualities requisite in the best fort of men; & that they were a See Suidas in to accustome themselves to refuse no manner of service, but willingly vndergo whatsoeuer is laid vpon them by their Commanders. These Sergeants attended their Commanders in Marches, and other times, faue onely when Bastaile was to be soymed, and alwaies expected his command. During the fight, they retired to some place, where they might bee ready at call; for (as I faid before) they could have no place

10 A Crier.] Concerning the office of a Crier, Suidas hath taught vs, that he was to deliver the Commanders pleasure by voice. Leo calleth him Mandator, from the b Leo cap. 6, Latine word, because he signified to the souldiers, Mandata, the commandments of the \$16. Captaine. Inexercise he stood at the head of the Troupe, taking from the Commander the words of direction, and making, as it were, preclamation of them to the Souldiers; and served often, when neither Trumpet, nor fignall might be given; be was otherwise also of great vse. For in all busines which required distinct signification of any sudden alteration in the Armie, the Crier had bis part alone. 'Xenophon telleth in the Græ- c Xenoph de class returns out of Persia, that Clearchin their Generall led them not against the expedicysi enemy, both because their courages began to fall, and also because they were all the day fafting, and it grew somewhat late. But yet hee turned not out of the way, left he might feeme to flie; but holding on right forward, he came with the

age distance of the state of the

Polyeniaba. m Athenzus dipnolophib.

th:cis 143.

Lyturgo.

fore for Iul.

i Pzine a

cap 1.5.33.

b Xeneph.

lab. 2. 474.

vantgard, to the next Villages by funne-fet there quartered; The very timber of the houses of some of those Villages was broken downe, and carried away by those of the Kings armie. The first therefore lodged themselves reasonably, the last being be-nighted enery man tooke vp his lodging as it fell out, and made a great noise, calling one after an other, so that the enemie heard it. Whereby it came to passe, that the next of them fled out of their tents. This appeared the next day, for neither was there carriage-beaft, nor Campe, nor smoake neere athand to be seene. The King also was terrified as it should seeme, with the accesse of the Armie. Which he declared by the next daies worke. Yet in the proceffe of night a teare feafed the Gracians themselves : and the tumult, and hurleburly was fuch, as is wont, when men are possessed with feare. Clearchus in this distresse commanded Tolmides the Elean (whom hee then had with him, the best Crier of those times) after silence, to make proclamation, that the Commanders fignified generally, that who focuer could bring foorth the Author of this tumult a About 2 176 should haue a * talent of silver for his paines. After this proclamation made by pounds starting the Grier the Souldiers perceived, that their feare was vaine, and that the Comcap. 6.430.437, manders were infafety: Hetherto Xenophon. By which narration may appeare, that the Crier performed that, which neither Trumpet nor other fignall could doe, the terror rifing in the night (which is the time of confusion and disorder) and neither could the Trumpet give any certaine found to remedy the perill, nor any other signall be discerned by reason of the darknesse; and this service was done by the Criet amongst his owne folke. His service against the enemie is declared in the fact of Cleocrytus the Athenian Criet who after the fight, betwixt Thrafybulus and the 20. Tyrants (wherein Critias and Hippomachus were flaine) with a proclamation to the Citizens, reconciled them to Thraig bulus, and was cause that the Tyrants were deposed, and had their authoritie abrogated by the people. The like fernice was done by a Crier in the behalfe of the Gra-

cians against the Persians , about the time of the battaile of Platex. The storie is this: c Diodor. Sie: e When the Gracians under the conduct of Leosychides, the Lacedemonian, and Xanthippus the Athenian, had gathered affecte of 250. Gallies together to the end to deliver the llanders, and the Citties of the Continent of Afia the leffe, out of the servitude of the Persians, they sailed out of Delos. The Persians then remained at Samos. But hearing of the approch of the Gracians, they left Samos, and put ouer to Mycale a City of Ionia. And because they perceived their shippes vnfit for fight, they drew them on land, and fortified the place, where they landed, with a wodden wall, and a deepe trench. Neuertheleffe they sent for foote forces, from Sardes, and other the next Cities , and affembled to the number of a 100000 men : And made provision for all things necessarie for warre, the rather, because they suspected the lonians would revolt. Leotychides having put his fleete in order, failed towards the Barbarians, that were in Mycale, and dispatched away before a shippe, wherein was a Crier, who had the shrillest voice in all the Armie, Him he commanded to faile vp close to the enemie, and to proclaime aloude, that the Gracians having overcome the Persians at Platae, were now come thither to deliuer and set free the Gracian Citties of Asia. This was done by Leotychides to the end to diffeuer the Asian Gracians from the Barbarians, and to raise a tumult in the enemies Campe. Which also came to passe. What service could bee of more importance, then to fet a dissift on betwirt the enemies ? It was done by the voice of a Criet. More examples I could alledge, but thefe may suffice. The Criers place was alwais to atsend the Commander in the bead of the Troupes, whileffe in the time of fight; at which time his voice could not be heard but game place to the noise of Trumpets and clashing of

11 A Tetragonall forme] That is of four equall fides, or four esquare; But we must understand (which Elian after teacheth) that there are two kinds of Tetragonall, or laware bodies military, one in number, the other in figure. In number, when the from, and flancke of the body have either of them as many Souldiers, as other; as the Syntagina bath 16. in front, and 16. in flancke. In figure, when the number of the front is erester, then the number of the flancke, and yet front and flancke firetch out an equal length of ground; as in the squares of horse, whereof Elian fpesk to hereafter. This Elian.esp. 18. last iquare is at this day called a iquare of ground, because the space of ground, which conteineth the length of the front, fretcheth out infily as far, as the face of ground, which contennesh the deepth of the flincke. It is caused by the difference of distance, which is beswist the Souldiers in front, and betwist the Souldiers in flancke. In front, being closed to fight, the distance betwixt Souldier, and Souldier, is but a cubite; that is a foote, and a bulle. The distance betwint souldier, and souldier, in stancke is two cubits, or three sone, which proportion will give no more, then halfe fo many men in flancke, as in front, and germaintaine the truenesse and enemesse of the sides of the sigure; that is the length of the line, which measureth the front, and flancke, shall be all one.

12 A Pentecosiarchie The word is a command of 500, and that was sometimes the number. In the Macedonian Phalange, it comprehendesh 4 5 12 men. The cause of difference is the difference betwint the file of the Macedonians, and the file of the ancient Gracians (wherof I have spoken before) the odde 12 men comming in by the fifth doubling of 16. And the number being fo necre 500, though somewhat aboue, the name of Pentecossarchies still reteined, because it was then in vie, and no other more fit

13 A Chiliarchie | The command of 1000 men according to the name; Elian giuthis a 1024, from the doubling of 512. The Tribunes of the Roman Legions are by the Greeke Hiftorians tearmed Chiliarchs; yet is there a great difference; for the Chiliarchs have no more command, then over their Chiliarchy confiling of 1000 men, and familimes of more, as berein Elian of 1024. But every Tribune had in his turne the command of the whole Legion. And against berebeing 12 Tribunes, to every Legion (which at first had in it 3000, afterward 4000, then \$ 5000, and in the time of Vegeti- 1 Platarch, in us 6000 men) how foodld a Tribune be called a Chiliarch and be a Leader of a thouland, Romule. there being in the legion but 6000 men at the most, and yet 12 Tribunes; fo that every b Saluth in Inenecould not have, aboue 500 for his command; and in Polybius time, (the legion be-c Veget lib.s. ing but 4200) not about 300 and odde. But the Roman manner of warre and ordering cap 2. of troupes, differed much from the Gracians; and the Gracians in tearming a Tribune a Chiliarch, tooke the next word, and most significant amongest them to expressebe charge of a Tribune. Our Coronells, for their command, of a Regiment come neerer to the Gracian Chiliarchs; yet ours differ inthat they have Companies intheir owner Erginents, which the Gracian Chiliarchs had not, and where Q. Currius faith that a Quint. Cort. the Chiliarchy was first instituted at Babylon by Alexander, as a reward for service, lib. 5, 166. a seemeth to be otherwise. For as I finde this in no other Author, so finde I, that Chiliarchies were long before Alexanders time. . Xenophon reportetb, that Cyrus to exenoph Cygine encouragement to bis fouldiers to be valiant, promifed to the Taxiarchs to make them 101.116. 2.43. Same encouragement to majormante state of make them Taxiaschs, to the Decharchs to make them (Xenoph. Cy. Conditions to the Pempadarchs to make them Decarchs; And that Cyrus made roping 1888. Chrylanthas a Chillarch of horfe in regard of his worth, and forwardneffe in fernice. & Xmorth, Cr. And afterward he calleth & Phranuchus, and Afiadazas, Chiliarchs of horfe, and Ar-ton, lib. 6. D. tabasus and Arragersas Chiliarchs of foote: h Polyenus witnesselb that in Iphicra-h Polyenib.3. tes his time the Athenians had Chiliarchs, and Pentecostarchs, so that the institution in letherate

of Chiliarchs could not be referred to Alexanders being at Babylon, confidering it was a Arrian. 10.2. In Use before; And a Arrian reporting the same story, Saith not, that Alexander first brought up Chiliarchies there, but that he ordeined two Lochi in every horfe troupe where to that day there had beene none) and two Lochagi to command them. Indeed b Died S: al. b Diodorus Siculus, writes thus concerning a Chiliarch. Antipater, faith he, lying lib, 18.653. vpon his death-bed declared Polyperchon Protector of the Kings (being the eldest of those, that had served Alexander in his warres, and much honoured of the Macedonians) and his owne fonne Caffander the Chiliarch, and fecond man in authority. The place and institution of the Chiliarch first grew to name and honor vnder the Persian Kings. So writes Diodorus of this Chiliarchy which Antipater beflowed upon his sonne Cassander. Which notwithstanding seemes much to differ from the common Chiliarchy of the Phalange, wher of Curtius (peaks. For Diodorus faith, he was next to Polyperchon in authority. Where in the Phalangethere were many Commanders, namely, the Merarchs, the Phalangarchs &c. above the Chiliarchs. Adde that he faith, the institution of this Chiliarch came from the Persian Kings, when the Chiliarch's of the Phalange had their beginning from the Gracians, and were ordinarie in Phalanges, as I have shewed. Lastly where Diodorus reporteth, that it had the increase and advancement of honour from the Persian Kings, he sheweth plainely, it was not Alexandersinuention. And the same Diodorus speaking of the death of O. chus King of Persia telleth, that he was poisoned by Bagoas his Chiliarch in the time of the reigne of Philip, Alexanders father. This Chiliarch then I take to be the fame, that the Generall of an armie is with ws. And I can hardly be perswaded, that Antipater

wouldbequeath a lesse place to his sonne Cassander.

14 A Merarchy The command of spart or halfe; for a Phalangarchy confifteth of two Merarchies. So that a Merarchy is halfe the Phalangarchy, and conteineth, 2048 men. This part is also called Telos, of which I have spoken in my notes to the fenenth . Thucydlib.s. Chapter. And yet the word Telos is not alone ved inbodies of foote. For 'Thucydides speaking of the fight by sea betwixt the Corcyrains, and Corinchians, telleth, that the Corcytwans game the right wing to ten Athenian Shippes, and having of their owne 4 100 and 10 shippes, divided them into three Tele, every of which was commanded by one of their Generalls: fo that Telos there lignifieth not a cert aine number of flips, but a part of their flect divided into 2:00 the Comanders of the Corcyr aans are cald Strategoi.

15 A Phalangarchie The command of a single Phalange. Of this kinde were c Arrandibat. the & Phalanges in Alexanders armie (as Itake it) which were led by Canos, by Perdiccas, by Craterus, by Amyntas, by Ptolomy, by Meleager, and other, as Arrian hath ; Before Philip and Alexander gathered those forces together, wherewith Perfia was subdued, the armies were of smaller number among st the Gracians. Neither was it in many Cities might to raife 4096 men; which go to the Phalangarchy of Ælian: If any did they might well call it an armie (Strategia, and the Commander Strategos) and the name of Strategos, or Generall was visually given to him, that commanded in chiefe over an armie (though [mall) fent out by any Citie to warre. So then, as the Generall was called Suraregos, a Phalangarchy might also becalled Strategia. I have before noted, that the fections of the Phalange are limited, and laid out by the Phalangarchies. And where there are 3 (ections in a Phalinge, the middle fection is in the midft of the 4 Phalangarchies , 2 Phalangarchies lying on the one fide , and 2 on the other. The 2 other fections are one betwist the 2 Phalangarchiesof the right wing the other betwist the two Phalangarchies of the left wing, for betwixt enery Phalangarchie was a space or fection.

16 A Diphalangarchie The command of two Phalangarchies; this was one of the wines. Elian quethit no Commander ordinary, neither doe Iremember, that I

baue read Diphalangarchs of Diphalangarchia, as Phalangarchs of Phalangarchia, 75 Tetrarchs of Tetrarchia. Ter was there one, airvates that commanded the winge, eppointed to that place extraordinas ily, 50 2 Philip, at the battaile of Cheronea where he a Died. Sicol. ouerthrew the power of the Athenians, and Thebans, and their Alles) tooke the one wing to himfeife, and gaue the command of the other to Alexander his fonne being then but young. And Alexander at Granicus commanded immleffetherishs wing, and ap b Arianlib.t. pointed Parmenioto the left. So in the battailes against Darius at Mos in Cilicia, c Arrivaliba.

Meros] Meros is a parthy disifien, comming of the wirbe, meiro to diside. 34. K. ind at before, Amerarchic was halfe a Phalane archie labore Meros is halfe the constitution. 60. B. And as before, Amerarchie, was halfe a Phalangarchie fe here Meros is halfe the fourfold Phalange. Each then fignifieth halfe, but to diffinguish them, the one is called a Me. earchie, that is a Commande of halfe, the other Meros, that is halfe: A diffinition suffacient to know the anefrom the other. Two of thefe Meros make the Phalange conteining: 6384 men. Andthese are the bodies militarie, which Elian in this Chapter defcribeth, and which were in view amongst the Macedonians. The other Gracians view other bodies in their armies. The Lacedemonians divided their whole city, into fixe exemple de bedies, borfe and foote cenery one of which was called Mora on Main This called the property one of which was called Mora on Main This called the control of the called t bedies, borfe and foote ; enery one of which was called Mora, or Moira. Their Generall ose A. was one of their Kings, for they had alwaies two. Enery Moira, had a Polemarch (not much differing from our Corenells) foure Lochagie, eight Pentecosteres, and fixteene Enemotarchs. What the number of the Moira was, is uncertaine, by reason of the secrecie the Lacedemonians vied in their gouernment, as f Thucydides faith. Plutareh f Thucyd. 116. * reporteth, that Ephorus the biftorian giusth 500 mento the Moira, Califthenes 700. 39 Careholy Display and other 1900. h Diodorus Siculus, agreeth with Ephorus, and elloweth Pelopida. but 500 to the Moira. And Xenophon numbreth the Moira of the Lacedemo h Died Sieal nians, which Iphictates, defeated hard by Corinth, to have been about 600 men. k See ii Xeno the scholiastes, of Thucydides, for the exact number of these badies. The 1 Atheni- Gree, lb. 4aus had their Chiliarchs, Pentecosiarchs, Taxiarchs, and Lochagie, as I have faid 5 as. C. before. And with them were the Lochagi last, where with the Lacedemonians they Thursd. b. 5. were next the Polemarchs, but the number of the Lochos was not alike, as I have like 172 wife hewed before. Cyrus in "Xenophon hath thefe orders militarie, Myriarchs Com in lehicias. manders of ten shouland, Chiliarchs of a thouland, Taxiarchs of a tundred, Lochagi sto. of twentie foure, Decadarchs, catted formetime Dodecadarchs of 12, Pempedarchs m Xenophon of fixe, which are allo called Hexadarche a Vehicine different was much from # 120. Cyroced lib. of free, which are also called Hexadarchs. " Vibicius different not much from Alian . 1.1.4. fue encly in the number of the file, and the Officers of the file. For where Elian hath a Expression fixeeneto afile, Vrbicius bath but sen and Vrbicius adoveth but two Commanders and to tathefile the File londer and the Bringers and the Brine tethefile, the File-leader, and the Bringer-vp Elian foure; the foure Enomotarchs. For the number of the Officers, in the Phalange they agree. And yet the names are not all on: Ælian beginneth with a Dilochite commanding two files, thirties wo men, Vibicius with the Lochugos, who likewife commandeth two files of his and fine men more, namely 25 men. The next in Elian is a Tetrarch ouer fixtie-fouremen, in Vibicius a Pentecontarch over fiftie men. Vrbicius bath next a Taxiarch, a Syntagmatarch, a Pentecofiarch, & Chiliarch, & Merarch, & Phalangarch: And fo bath Elian. The Mext in Eian & a Diphalangarch, Commander of 8192 men; Vibicius termeth bim a Myriarch that is the Leader of ten thou (and men. The Tetraphalangarchy is last in beth, But Vrbicius afigneth no more, then 16 thou and to his Phalange, Elian 16 thou and 384. Iulius Pollux thus dividesh his bodids, 4 Myriarchie, 4 Chiliarchie, 4 Taxarchie, 4 Hecatontarchie, and a Lochagie. What a proportion Leo makes, is to befene in the fourth Chapter of his Tacticks. Because, be bath a mixture of the Roman and Greeke Orders, I remit the Reader to the booke.

Dilochites 512. Tetrarchs 256. Taxiarchs 128. Syntagmatarchs So then Elian hath in his Phalange 64. of armed (besides the two Diphalan - Pentecosiarchs 32. Chiliarchs 16. ourchs) 1020. Officers. Merarchs 8. Phalangarchs 1020.

I have let downe the figures of all the bodies described by Elian as farre, as the Phalangarchy. The rest would have beene troublesome to insert as requiring more paper. then would fland with any reasonable proportion; neither are they greatly needfull. For two Phalangarchies toyned in an even front , and in a convenient diftance , will figure ont a Diphalange; foure in an even front with a like distance will make the fourefold Phalange. So that thereby the forme of it will appeare.

> The precedence, and dignitie of place in the offices of the Phalange.

> > CHAR. X.

"He best of the Phalange Commanders is placed on the right wing, the second on the left wing, the third in valour in the right hand next the fecond Phalange toward the middle section. The fourth on the left hand next the first Phalange toward the middle section likewise. So the first and fourth Phalange haue Commanders of the first, and fourth worth: The second and third Phalange have Commanders of the second and third worth. Now wee will shew by demonstration, that the first, and fourth worth, and valor, are equall to the second, and third; So that the Commanders in each wing are of valor alike.

* The Leaders also of the feuerall Merarchies are thus disposed. The first hath his place in the head of the first Phalange on the left hand: The second on the right band of the second Phalange: The third on the left hand of the third Phalange: The fourth on the right hand of the fourth Phalange. Also the Leaders of files in euery Tetrarchy are so placed, that the Leader of the first file hath preheminence in valor and place; the Leader of the fourth file standeth next him: Then the Leader of the third file, and the Leader of the second file last. For then are Dilochies of equall valor when the first Dilochie hath the first, and fourth Leaders, the second Dilecty the second, and the third Leaders in valor and reputation. For it appeareth in the Mathematicks, that, when there are Analogies, or answerable proportions of foure magnitudes propounded, that, which arifeth of the first, and fourth, will counternaile that, which arifeth of the second, and third magnitude. And because there are foure Tetrarchies in enery Syntagma, wee may give the Leaders of the Tetrarchies place according to the same proportion, as to place the Tetrarch of the first 7 etrarchy on the right hand, giving him the first place of worth; on his left hand the Tetrarch of the fourth Tetrarch in the fourth place of worth. Then again & next him the Tetrach of the third Tetrachy in the third place of worth, and on his left hand the Tetrareh of the second Tetrarchy in the second place of worth. In like manner are the greater commands also to be proportioned.

He former Chapter was of the Officers and of the bodies of the Phalange; this is of I the place of enery one, according to his worth. And first wee are to note, that all the . Commanders were placed in front of these, that they commanded ; to the 2 Xcnoph. end they might direct, and lead them as occasion fould require. For " Xeno. Cyone, its, shon faith of Curve arms the Decadersh or file I reduce had an a Set \$10. phon faith of Cyrus army, the Decadarchs, or file Leaders, had care of the xemph. files, the Lochagie of he Decedarchs, the Taxiarches of the Lochagie, the Chilarchs Cyro. lb. s. of the Taxiarchs, the Myriarchs of the Chiliarchs: Sointhe Phalange of Elianthe 103.A. file Leader had the command of his file, the Dilochites of the file Leaders, the Tetrarchs of the Dilochites, the Taxiarchs of the Tetrarchs, and fo the reft, till you come to the Generall, who exted for all, directed all, and under whom all the Commanders were. The Generallizath been eplaced sometimes in the right winge, sometimes in the middest of the Phalinge. Vegetius saith, that the Generall of the Armie is accustomed a Vegetius to be in the right winge betwixt the horse, and the foote. Hee addeth, this is the lib. 3.cap. 18 place, which governeth the whole battaile, from whence the falying out is most direct, and free. Therefore he standeth betwixt both, that hee might both gouerne horse, and soote with counsell, and with authority exhort them to fight. Cyrus in his battaile against Cresus, took his place in the right wing, betwixt the right d Xenoph. band point of the battaile, and of the horfe, that were ranged in the wine; Alexander Grooting, the account which have the battaile and the horfe, that were ranged in the wine; Alexander Grooting, the battaile stable of the batta the great, in his battailes tooke the same place; "Timoleon in his fight against the Can-e Fharch.in thaginians placed himself ein the middess of the battaile. Diodorus Siculus, Jaib, Timol. that, it is the manner of the Scythians, that the King fould fland in the middelf of the lib. 20.743. Phalange. The like doth & Arrian affirme of the Perlians, and faith, that Darius had & Arranba. Phalange. The like acts 5 Arrian affirme of the Petuans, and Jaith, that Danus naa 5 that place. h Leo also give the middelt of the battaile to the Generall. And there h Leocap.4. placeth the bestaile over which he would have him to command. I The best of the Phalangarchs] This ordering of the Phalangarchs the best & copinges.

en the right hand wing, the second on the left, the third next him in the left wing on his right hand toward the middle fection: The fourth in the right wing on the left hand of the Estimand the middlesection thus, 1 4 1 commeth out of a Geometricall proportion, which proportion giveth law to the ordering of the rest of the Commanders. The rule # 16 a : 4. Magnitudes which equally exceede the one the other being compared to gether that which arifeth of the first, and fourth, is equall to that, which arifeth of the second, and third. As 2. 8. 14. 20. each exceedesh the other, 6. The addition of 2.to 20. begetteth in equall number to 8, and 14. added together. So is it in all other numbers, that have the same equalitie of excesse one above an other. Out of this rule of proportion, Elian deriue b the giving equalitie of strength in the Leaders to every bode mile Phalange. For Leaders and Commanders are (orought at least to bee) chosen by worth, and valour : and the preferments of the feild have beeneheld the ducreward of vertue. Say then the Phalangarchs are preferred to their places according to their worth, and that the first Phalangarch is most worthy, the second next lin, the third next, the fourth kast deferring of the fourt. If you should place them, as tour worth is in a rancke successively one after an other, the best before the first Phalan-Sarchie in the right wing, the second before the next Phalangarchie in the same wing, calleane the other two Phalangarch's to command the left wing, the diffroportion would t great; the shird and fourth not being able to match the worsh of the first, and second.

of Ælian.

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But if you place the best Phalangarch before the sirst Phalangarchie on the right wing, the scoral before the scoral Phalangarchie of the less wing, the theory Phalangarchie on the silver the third Phalangarchie on the less wing, toward the middle Section; the souther before the sourch Phalangarchie of the right wing toward the saint be more the sourch of the Commanders, will be equald in both winges. For as in the number 1.2.3.4.000 and 4, make 5, 40 many, as is made by ievning 2 and 3 together; so the worth of the fourth Phalangarchi iopned to the worth of the sourch as high in the worth of the fourth Phalangarchie sounds of the sourch of the sourch

$$\frac{2}{b}$$
 f $\frac{3}{c}$ g $\frac{4}{d}$ e $\frac{1}{a}$

For the understanding whereof, you are to note, that

- a signifieth the first Phalangarchie.
- . c the third Phalangarchie.
- d the fourth Phalangarchie.
- e the Section of the right winge.
- f the Section of the left winge.
- g the middle Section.
- 1 the place of the first Phalangarch.
- 2 the place of the second Phalangarch.
- the place of the third Phalangarch.

 the place of the fourth Phalangarch.
- 2 The Leaders of the Merarchies] As the Phalangarchs fo are all the other

Commanders of the several begies placed by soure, and the same observations be bad, of the dignities of the place, that was in the Phalangarchs: and these 4 Merarchies (for Rlian speaketh of no more than 45) must stand thus.

P, flandeth for Phalangarchs. M, for Merarchs.

Robortellus confesses he sindeth these Merarchs so placed in a written booke, and it is the true placing. The signres, he settleth downe out of his owne wit sa he termeth it) carry with them no sawour of Ælians proportion. Patricius themsels seemest to have missen them no sawour of Elians proportion. Patricius themsels seemes his laberation one is right. I will reserve the bath set downe, of which not one is right. I will reserve the sath set advance of which not one is right. I will place not money of the missen single But Ælian placeto here but a Metarchs; what order shall be for the other source? I have alwaits though ælian selection in this place, nuther could I witherto sinde any man, that he meght light to clear the downe. Patricius that purposely disconset he ship place of the second sources of the place o

Elian, speaketh of bestowing 4 Metarchs onely, as though the rest were to be throwne and from the Phalange. Robortellus seeking to bestow all 8, bestoweth them indeed, but not according to Elians proportion, which notwithstanding he would seeme to solve. His figure is this.

The proportion is his, as I said, and not Elians. For Elian placed the first Metarch in the right wing; he placeth him in the left; Elian the second in the second Phalangarchic, he inthe south; Elian the third in the left wing, he in the right; Elian, the south in the south Phalangarchic, he in the first. The rest are so immediately extent to the whole any time else had been south for, rather than proportion. I take not upon meet over-rule any doubt; but if among it the rest sentence in the opinion, though they are incurre instituted. Thus then: seeing Elians meaning is by evenssee and worth of the manner of both wings to since our rule of the Commanders of both, if I so distribute time, that the number of the one side shall counterballance the number of the sther, I cannot much siray from Elians meaning. The sigure following will doe it.

In this figure I have observed precisely the place, that Elian game to the 4 Merarchs. The first flandeth on the left hand of the first Phalangarch; the fecond on the right hand of the fecond Phalangarch; the third on the left hand of the third Phalangarch; the 4th on the right hand of the 4th Phalangarch. The reft I have added, and divided according the placing of the first: So that the number that arifeth of the addition of both wines, is alike, and the proportion held. In all the rest of the bodies, where there is a Command ouer 4, the keeping of the proportion hath no difficulty. So every Phalangarch commandethouer 4 Chiliarchs; every Merarch over 4 Pentecofiarchs; every Chiliarch over 4 Syntagmatarchs; every Pentecofiarch over 4 Taxiarchs; every Syntagmatarch oner 4 Tetrarchs; enery Taxiarch ouer 4 Dilochites; enery Tretarch ouer 4 files: In all which the Commander, which hath the right, hath the first place, he that hath the point of the left hand, the second place; he that standeth on the right hand next to him, the third place; the last place is his, who standeth next to the Commander of the right point on the left hand. And for the place of the Phalangarchs, and of 4 of the Merarchs, and the file-leaders, and of the Tetrarchs, they are laid out by Elian. The reft appeare by these, and are to be squared by the same rule of proportion, as Elian admonified

The diffances to be observed betweene Souldier and Souldier in opening and shutting the Phalange.

CHAP. XI.

7E are now to speake of distances both in length, and depth betwixt Souldier, and Souldier, as they stand ordered in Battaile. The distances yary in three forts. For first they are placed in thinner distance for some speciall causes. And a Souldier so placed taketh vp 1 4 cubits. But in 2 Densation or closing he taketh vp 2 cubits. 3 In Constipation or Soutting, one cubit.

Densation then, or closing is, when we draw wide distances close together, and by fide-men, and followers (that is both in length and depth) gather vp the bodie of the Phalange: fo notwithstanding that the souldier yet hath libertie to moue. and turne about.

Constipation, or shutting is when the Phalange by side-men gathereth it selfe yet closer together, then in Densation; so that by reason of the nearenesse there is left no Declination, or turning of faces either to the right, or left hand.

The vie of Closing is, when the Generall leadeth the Phalange against the enemy. Of Shutting when he would have it frand fast (and as it were locked up, and serred) to receive the charge of the enemy.

Seeing then there are 1024 File-leaders in the front of the Phalange, it is plaine that 4 in their ordinary array they take vp in length 4096 Cubits 5 (that is ten furlongs, and ninetie fix cubits) In Clofing five furlongs, and forty eight cubits. In Shutting two furlongs, a halfe, and fower and twenty cubits.

Notes.

Fter Souldiers are armed, and distributed into bodies military, the next care is to be A Fier Soudiers are armed, and distributed into voques minuty, we may made and had of their Mouing. For as a man, let him be never so well proportioned, and strong, if he pace disorderly, and either fet too great strides, or reele here, and there, or fo mince, and tread out his fleps, as if his leggs were bound together, groweth hereby deformed, and not onely lofeth his comelinesse, but his activitie withall, and possibility to performe any thing by firenath: So is it of an Armie, that hath either too great distances, or a Cxfar de bei, is thronged up, or peftred too close together. * Too much thronging bindeth, as it were, the fouldirs hands, and taketh away the wfe of his weapons, as on the other fide of alling Philopornesse one loofe from another, and standing or moving too farreasunder, maketh the Battaile weake, and distointed, and subject to the enemies entry, and easie to be broken. The meane betwire both was brought inby King Philip, King of Macedonia, who first constituted, and raifed the Macedonian Phalange, and invented the distances of opening and closing e Dodor So the same; initating the ferring of Targets (called Synaspismos) practised by the old Heroes at Troy. Out of his discipline fprun; the distances mentioned here by Elian: which are of three forts; The first are large distances of

1 Four Cubits Which amount to fix fonce. For a Cubit conteineth a foote aniahafe. This distance was vied in marching, or elle in solemne pompes and shewes. erol blib 17 And the fouldier having a pike of 14 Cubits or 21 long, whereof one halfe lay forward on his footlder, and the other halfe backward, it was requifite he footld have areasonable large distance, both in file and ranke, to the end, that in turning this way, or that wonowed the wartes with King t map, and gamed many a dattane, were by this occasion tolled out to succour; and as they excelled the yonger fort in greatnes of spirit, and military experience, so meeting with the run-a-waies, they bitterly reuiled, and raunted them for their cowardice; Then * ferring themselues close, * Synaspisantes and joyning their Targets together, they repressed, and held the enemy short, who now seemed to have the victory in his hands. Finally killing Ephialtes, and many other, they droue the rest into the City. A memorable service of the vse of Targets , and of the Synaspilme of the Micedonians, which was not wfed, but when they either game upon or received the charge of the enemy. And the Targets fo knit together ferued for a wall (as it were) to the whole Phalange, and by them the fouldier

Shutten

roulder

ph. ib.7. 'ed by Thu-.5 393.

ın. in 575-

664 C. Leo cap 17. f Leo cap 7.

The distances to be observed betweene Souldier and Souldier in opening and shutting the Phalance.

CHAP. XI.

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the sounder to practically the property of the

Conflipation, or southing is when the Phalange by side-men gathereth it selfe yet for together, then in Densation; so that by reason of the nearenesse there is less than the selfection of the search selfection of the search selfection of the search selfection.

The vie of Clofing is, when the General leadent the Philange against the enemy.

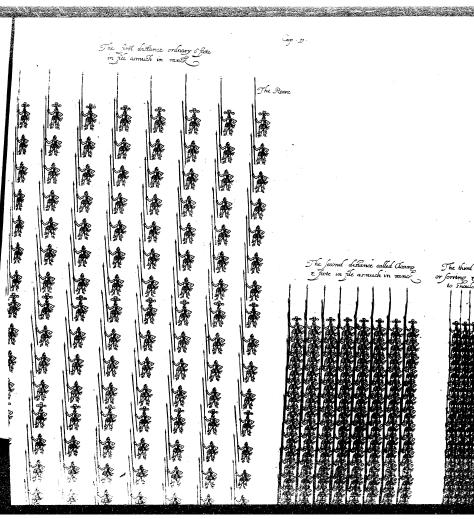
Shatting when he would haue it stand fast (and as it were looked up, and force) in cecine the charge of the enemy.

Seeing then there are 10.4 File-leaders in the front of the Phalange, it is plaine to 4 in their ordinary array they take vp in length 40.96 Cubits 5 (that is ten furgh, and forte elik cubits). In Classing sine further was and forty eight cubits. In the grant of the cubits, and forter and twenty cubits.

Notes.

Fire Souddiers are armed, and distributed into bodies military, the next care is to be had of their hung. For as aman, let him be never for well proportioned, and that of their him pace distributes, are their fit too great strides, or receive been, and their fit too great strides, or receive been, and their fit too great strides, or receive here they deformed an antique without his commonly for this is a strict without acception, growed hereby deformed any pring for first his commonly fit to the strict without his desired with the property of provides. So is so for a traine, that hat he liber too great stiffances, or consider the man of the great to close foregeter. I for much theraping bunded his provides of conditions that the strict way they left him weapons, as one live there fit is fitting of the first manner of the strict had been any they left of his weapons, as one live there fit is fitting of any different strip and different manners, and flat and or the string or manifest or farred funder, maketh to be sufficient to the committee that any the fitting of the string of Targets (called Synafpishnos) pratified by the difficults of the string of the strin

Four Cubits | Which amount to fix four. For a Cubit conteineth a foster baffe. This additions was whealth maching, or elfein following pompes and therees, the foulder basing a pite of the Cubits or 2x long, whereof one halfe lay forms in Southern and the other halfe bakkens, it was required the following the color halfe bakkens, it was required to flowed have a reading edifferent both file and ranke, to the end, that in surroung this way, or that



CHAP. XI.

E are now to speake of differences both in length, and depth betwixt Souldier, and Souldier, as they shand ordered in Power length. dier, and Souldier, as they stand ordered in Battaile. The distances vary in three forts. For first they are placed in thinner distance for some speciall causes. And a Souldier so placed taketh vp 1 4 cubits. But in 2 Densation or closing he taketh vp 2 cubits. 3 In Consistation or shutting, one cubit.

Densition then, or closing is, when we draw wide distances close together, and by fide-men, and followers (that is both in length and depth) gather vp the bodie of the Phalange: fo notwithstanding that the souldier yet hath libertie to moue, and turne about.

Constipation, or shutting is when the Phalange by side-men gathereth it selfe yet closer together, then in Densation; so that by reason of the nearenesse there is left no Declination or turning of faces either to the right, or left hand.

The vie of Cloting is, when the Generall leadeth the Phalange against the enemy. Of Shutting when he would have it stand fast (and as it were locked up, and ferred) to receive the charge of the enemy.

Seeing then there are 1024 File-leaders in the front of the Phalange, it is plaine that 4 in their ordinary array they take up in length 4006 Cubits 5 (that is ten furlongs, and ninetic (ix cubits) In Clofing five furlongs, and forty eight cubits. In Shutting two furlongs, a halfe, and fower and twenty cubits.

Notes.

A Fter Souldiers are armed, and distributed into bodies military, the next care is to be had of their Mouing. For as a man, let him be never so well proportioned, and strong, if he pace disorderly, and either fet too great strides, or reele here, and there, or so mince, and tread out his fleps, as if his leggs were bound together, groweth hereby deformed, and not onely lofeth his comeline ffe, but his activitie withall, and possibility to performe anything by french: So is it of an Armie, that hath either too great distances, or a Cafar de bel. is thronged up, or peftred too close together. " Too much thronging bindeth, as it were, the fouldits hands, and taketh away the wfe of his weapons, as on the other fide falling Philopermene, one loofe from another, and flanding or mouing too farre a funder, maketh the Battaile weake, and dissointed, and subject to the enemies entry, and easie to be broken. The meane betwist both was brought in by King Philip, King of Macedonia, who first constituted, and raifed the Macedonian Phalange, and invented the diffances of opening and clofing Dodge Se the fame; initating the Cerring of Targets (called Synafpifmos) practifed by the old Heroes at Troy. Out of his discipline fprung the distances mentioned here by Elian: which are of three forts . The first are large distances of

I Foure Cubits Which amount to fix foote. For a Cubit conteineth a foote an i a ha fe. This a distance was refer in marching, or elfe in solemne pompes and shewes. To bib 17 And the foulder bring a pike of 14 Cabits or 21 long, whereof one halfe lay forward on his foonlder, and the other halfe backward, it was requisite he should have area-Sonable large diffance, both in file and ranke, to the end, that in turning this way or that

The fecond distance called Comme

The Reare

d Polyblib is Leo cap 17.

gall.1:b. Plucar

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Leo cap 17.

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way, or that way, or mouing out of his place (for no man in his marche, can alwaies held his rinke) he offended not his next neighbours therewith. This distance our exercise at this dar calleth open order. The next distance is of

Two Cubits | Or three foote. The name of it in Greeke is Pycnolis, that is thickning. In Leo st is called Sphinxis, (knitting together) in our moderne exercise Order. And it is, when from the distance of 6 foote, we draw our Phalange both by file, and ranke, so close, that the souldiers stand but 3 foote one from an other every way. This distance is veed, when the Army approcheth neare to the enemy (and onely commeth not so charge) that it may be ready to (but, and locke it felfe for the charge, which is performed in the last distance of

One Cubit A foote and a halfe. This is called Synaspismos, ioning Target to Taroet, For, as I before [bewed, the pikemen of the Macedonians ofed alfo Targets with their pikes, and in charging the enemy closed fo neare in front , that their owne Targets touched one another. This kind of fight's the Egiptians vied in Xenophon (which & Xenoph. he calleth locking together of Targets) and by meanes theref had the advantage against Cyrop.lib.7. the Peritans. The Parthian horselikewise comming to charge Crassus with their states: It is called by h After they perceived the depth of the locking of Targets, and the fetlednesse, Thucydides, and itediaftnes of the Roman Phalange, they retired, and durft not come to hands Specify. This with them. And Diodorus Siculus writes that Alexander besseging the City of Syd lib.; 393. Halicarna (Jus, there was in the City, and in service of Darius one Ephialtes an Athe-h Appian.in nian, a min of great valour, and strength of body; He by the permission of Memnon A. 164. D.C. Generall of Darius Armie, determined to make a faly. And taking to him 2000 i Diod, Sicul, mercenatie fouldiers, all chosen men, and giving brands flaming with fire to one lib. 17. 575. halfe, and referuing the rest for fight, he opened the gates, and fell out, throwing fire vpon the engines of battery, which soone caught a mighty flame; And marshalling the rest into a thicke and deepe Phalange, himselfe led on, and was the first that fell on the Macedonians coming to aide, and to quench the fire. Alexander advertised hereof speeded to the medley; & ordered first the Macedonians in front, after them other choice men, for seconds; and in the third place men of extraordinarie account for their proweffe, himfelfe leading them on fustained the enemy, which seemed vnresistible, and sent others to slake, and put out the fire, and to preserue the Engines. The fight was hot, and albeit the Macedonians found meanes to quench the fire, yet had Ephialtes the better in the fight; who both himselfe killed many with his owne hands, and the towers from the walls furnished with many Catapelts annoyed greenously the Macedonians. In so much that some falling in the place, other-some for saking their ground by reason of the number of Engine Darts that fell thicke amongst them, Alexander himselfe was reduced to extremitie. Here the old fouldiers of the Macedonians; although otherwise freed from such service in regard of their age, having of a long time followed the warres with King Philip, and gained many a battaile, were by this occasion tolled out to succour; and as they excelled the yonger fort in greatnes of spirit, and military experience, so meeting with the run-a-waies, they bitterly reuiled, and raunted them for their cowardice; Then * ferring themselues close, * Synaspilantes and joyning their Targets together, they repressed, and held the enemy short, who now feemed to have the victory in his hands. Finally killing Ephialtes, and many other, they droue the rest into the City. A memorable service of the vse of Targets, and of the Synaspilme of the Macedonians, which was not wfed, but when they either gave upon, or received the charge of the enemy. And the Targets fo knit together ferued for a wall (as it were) to the whole Phalange, and by them the fouldier

percing of the | word. Synaspismos then, or sbutting, is that aiftance in the Phalange. which bringeth the (onldiers Target to touch one an other, and is limited by Elian to a cubise (that is a foote and a halfe) betweet side-men, and side-men in the front. What distance the followers (hould have, Elian fetteth not bere donne in plaine words; but implies, that they fould hold their 3 foote flill, in that he faith the Phalange in conft pation gathereth 2 Poisb.hb. the side-men closer, then in densation, but speaketh nothing of followers. 2 Polybius 17. 764. A. teachethit more plainely; who gives them three foote distance from the Leader, both according to the Macedonian and Roman discipline, and that for the wie of their armes: with b Alian c. 14. whom Elian also agreeth afterward. In what manner the Targetiers made their clofings, and how their Targets were cast from the backe, where they hung, to the left (boulder, I have before noted in the second Chapter, and therefore thinke it needlesse here torepeate. Now for the ground, that a Phalange taketh up in each of thefe orders, Elian flow-

eth it in the words following allowing the Phalange.

4 In ordinary aray foure thousand cubits] The Phalange in open order, saith Elian, takes up 4096 cubits of ground. This is to be understood in front, or length; for in depth it hath no more, then 64 cubits; every fouldier (which are in number, 16 in file) pollesing 4 cubites of ground in his open order; A cubit is the part of the arme, which

reacheth from the elbow to the middle fingers end, and is as much, as a foote and a balfe. In from then, there being 1024 File-leaders, we most alott to each of them four ecubits, of ground; to the thousand 4000 cubits, and to the odde twentie foure 96 cubits. For foure

times twentie foure makes 96. which together comes to 4096 subits, and to fix thousand

one bundred fortie foure foote.

Ten furlongs and ninty fix cubits Where this space is squared out by tenne

d Suidas in Picthro.

e See Polyb.

Lcoca .. 17.

lib. 11.664.C.

furlongs, wee must understand, that a furlong conteines & foure hundred cubits, and 4096 being divided by 400 the quotient is 10: - that is ten furlongs and 96 cubits, as Elian faith. Which measure of ground the Phalange of Armed taketh in open e Suidasibid. Order. Of these furlowes . Seuen and a halfego to amile, by which account the front of the & Leocap. Phalange of armed in open order taketh up one mile, a quarter, and 2 46 cubits, measur-17.589. ing it by feete it amounts to 6130. In closing (which is named Order, and is the next distance) because the souldier is allowed but 2 cubiss, that is balfe so much, as in open Order, the dimension will not exceede fine furlongs, 48 cubits; that is 2048 cubits in all,

which amounts to balfe a mile, halfe a quarter, and 172 cubits, in feete, 2072. In shutting 2 furlangs and a halfe, and 2 4 cubits; that is a quarter of a mile and 274. cubits.

The arming of the Phalange.

CHAP. XII.

He Phalange is to be armed with Target and Pyke. The best Taget is the Macedonian target made s of braffe, and s somewhat hollow, and having seight handfulls in Diameter. The Pyke ought to be 4 no fhorter then 8 cubits ; and the longest no longer, then a man may well vse and wield in handling.

Notes.

Reshe second Chapter of this booke was handled the diversitie of armes, resed in the Phalange. This fetteth forth the choice, that is to be made for matter and fashion, and

what fife is best of pike and target. For the other armor of the armed (whereof I stake, in my notes to the Second Chapter) is (no question) to be fitted to the body of him, that shall brare them. He giveth then to the armed a target, and a pike, the target the Macedonian target , the matter whereof was first of braffe. I have shewed , that the Macedonian target was of brasse, and that they were called by reason of the bearing such targets Chalcalpides Brazen-targets. I am induced to thinke, that, as Philip borowed many other things in warre from the Lacedemonians, fo he borowed this kinde of target from them. For they by the ordinance of Lycurgus, were intojned to have no other matter in their target, then braffe. 2 Xenophon gives a reason why they were made of braffe. For Ly- 2 Xenophon curgus was of opinion, faith be, that such a Target was most fit for warre, because de rep. Laced. it is soone brought to shine, and it gathereth not rust easily, two great commodities in armes. For a beit the chiefest considerations be surenesse, and strength, yet is not the beauty to be neglected, which (hining doth principally fet out. Besides that it dazeleth b Plutarch in the eye of the enemie, and strikes an amazednesse into his minde. 'Xenophon much ad-crasso.' c Xenophon mireth Agesilaus, that he so armed, and clothed his armie, that they seemed to be Agesilao, nothing, but braffe, and nothing, but scarlet. The braffe be feaketh of, were the bra- 659. B. zen targets of his fouldiers, which covered the most part of the body, and were chiefely the object of the eye, without that, that any other weapon was at that time of Braffe. Therefore, as I faid, 1 am of opinion that the brazen Target came from the Spartans to the Macedonians. The Brazen-targets Ælian would have

Somewhat hollow If they (hould be are streight out without any bowing, besides that they were uneasie, they would lie kicking out from the body, and not cover it much. The arme or (boulder, that is in (erted into the Target, is bowing. And the target Somewhat bowing fits it for ease, and Ropeth more toward the body to couer it, and is more pliable to be carried. But the hollownesse ought not to be much. He would have it also

3 Eight hand-fulls in Diameter | The Diameter in a circle is a right line, which is drawne from one side of the circumference to the other passing thorough the Center, or middle point of the circle, dividing the circle in two equall parts. Here the Diameter of the target is taken for the exact bredth of the target, which ought to be, according to the Macedonian manner, eight handfulls, or two foote, that is 22 fingers. For four handfulls go to a foote, and foure fingers to a handfull. d Leo gives it three Spithams, d Leo cap. 6. that is 36 fingers, if he meane the great 'Spithame, which is of twelue fingers. And \$ 38. the lesse comprehending a handfull he cannot meane. For so should the breath of the target this beno more, but three handfulls, a breath insufficient to coner any mans body. Whether of \$ 32. collection them is the bitter will appeare in triall. The Diameter that fernes to cover the bodie from the upper part of the necketo the middle part of the thigh, is enough in the feround targets. That, which is more, is rather troublesome, then fit for wee. And I am of Iphicrates indgement in targets, that performing the covering of the bodie, they bould be as light, as may bee, least the shoulder be over-laden with wnnece sarie weight. If which regard I preferre the Target of Elian, before that of Leo; Elians reaching up to the beight of the necke from the middle of the thigh; Leos carying a handfull more in bredth, which in the circumference groweth to a good proportion of weight and greatneffe.

4 No shorter than 8 Cubits] That is 12 foote. Short pikes against long have a great disadvantage. With the long pike a man is able to strike, and kill his enemy, before himselfe can be touched, or come in danger of a shorter, the pike keeping the enemy out so farre, as the length is. The experience of the battaile of Sorano, heweth it; where rel, part, fecun: Vitellozzo Vitelli discomsited the Almaines onely with the advantage of pikes an arme lib. 3. caps. longer than theirs. Against long pikes, this policie was veedby Cleonymus the Lace- 8 Polyen. lib. demonian King, as & Polienus tells. Chenymus belieging Adelfa, and having over- 5 1.

throwne the wall of the City, the pikemen of the City salied out, whose pikes were each 16 cubits in length. Cleanymus closed his Phalange in depth, and commanded the file-leaders to lay away their pikes; and when the pikemen of the enemy came to charge, to feaze vpon their pikes with both hands, and hold them fast, and the followers to passe thorough by the file-leaders sides, and maintaine the fight. The file-leaders laid hold on the pikes, and the enemy strong to reconer them out of their hands. In the meane time, the followers passing thorough the ranke of file leaders to the front, flew the enemies pikemen, and got the vi-Storie. This was Cleonymus denice against long pikes, which notwithstanding derocases nothing from the length of pikes more, than from (hortness. For the same policie might have prevailed as well against short pikes, as long, each, assone as the enemies have leized upon them, growing to be of no vie. But that the longer pike is to be preferred before the shorter. I have shewed before by resson: and the reformation of armes made by Iphicrates amongst the Athenians, and by Philopomen amongst the Achaians, will be warrant enough fo to hold. In the length notwithstanding ought to be a reasonable consideration, that it exceede not the measure of his strength, that shall beare the pike.

The worth that the File-leaders, and next followers should be of

CHAP. XIII.

HE File-leaders (as the Commanders of files of the Phalange) are to be the choice and flower of the Army, and to excell the rest as well in statute, as in experience and martiall skill. For this Ranke knitteth and bindeth in the Phalange. and of all other yeeldeth greatest vie. For, as a sword taking to the edge as a weight, and fway, the fwelling yron towards the backe exhibiteth thereby more violence in piercing, fo in a Phalange the Ranke of File-leaders is the edge it felfe. and the multitude of after-commers is the swelling, and sway, and increase of weight.

Consideration must be had likewise of those that follow in the second Ranke. For their Pikes reach in yntly ouer the front, and being next in place they are alwaies ready for vie. And the File-leader falling, or being wounded, the next follower stepping to the front in his place, holdeth together, and preserueth the tenor of that Ranke vnbroken.

. Furthermore, we are to order the third and the rest of the Rankes according to reafor and as the valour of our fouldiers shall require.

" His Chapter sheweth how the Souldiers are to be ordered in every File: whereof, because I have before foken sufficiently in my Notes to the fifth Chapter; and the words of this Chapter carry no difficultie, or obscuritie with them, I will forbeare to treat ANY further.

CHAP. XIIII.

Of the strength of the Macedonian Phalange, and length of the Souldiers Pikes.

CHAP. XIIII.

HE Macedonian Phalange hath of enemies beene thought vnrefistible, by reason of 2 the manner of embattailing. For the Souldier with his Armes thandeth in close order, or shutting, when he is ready for fight, 3 occupying two Cubits of ground. And the length of his Pike is fixteene Cubits according to the first institution, but in truth it ought to be foureteene Cubits; whereof the * space betwixt the hands in charging taketh vp two Cubits, the other twelve lye out from the front of the Battaile. Those in the second Ranke, that stand next to the Leaders (loofing foure Cubits in the Phalange) have their Pikes reaching over the first Ranke ten Cubits. Those of the third Ranke eight Cubits, of the fourth Ranke fix cubits, of the fift 4 cubits, of the fixt 2 Cubits. The Pikes of the other behind cannot attaine to the first Ranke. And seeing five or fix pikes are charged ouer the first Ranke, they present a fearefull sight to the enemy, and double the

Piker reaching over the Front

a warminger, to make to me principal communate not onely in front; but also in the Reare of the Battaile, for the causes before mentioned.

Notes.

"HE strength of the Macedonian Phalange, which consisted principally in the a protention, and charging of pikes, and knitting together of Targets, is here a Appian in fet downe. The whole Chapter feemeth to have beene taken out of Polybius, who hand- Syriacis of E. leth the same argument, and almost with the same words, but that Elian, and he differ b Polyb.lib.17. about the number of Cubits, which the Pikes take up reaching oner the front of the Phalange.

I The Macedonian Phalange, hath beene thought to be vnresistible] The frength of the Macedonian Phalange appeareth no way better, than by the conquests it bath made. King Philip was the inventer of it; and by that invention raised the kingdome of Macedonia from the poorest, to the powerfullest, and greatest kingdome of c Diod Sieut. Europe; and (that I may ve the words of Diodorus Siculus,) finding the Crowne, the 16,16,10 at his comming to it, in bondage to the Illyrians made it afterward Lady of many great Nations, and Cities; and purchased to himselfe, to be declared Generall of

85

of Ælian.

CHAP. XIIII.

→HE 1 Macedonian Phalange hath of enemies beene thought unreliftible, by reason of 2 the manner of embattailing. For the Souldier with his Armes franderh in close order, or shutting, when he is ready for fight, 3 occupying two Cubits of ground. And the length of his Pike is fixteene Cubits according to the first institution, but in truth it ought to be foureteene Cubits; whereof the Afrace betwixt the hands in charging taketh vp two Cabits, the other twelve lve out from the front of the Battaile. Those in the second Ranke, that stand next to the Leaders (loofing foure Cubits in the Phalange) have their Pikes reaching over the first Ranke ten Cubits. Those of the third Ranke eight Cubits, of the fourth Ranke fix cubits, of the fift 4 cubits, of the fixt 2 Cubits. 5 The Pikes of the other behind cannot attaine to the first Ranke. And seeing fine or fix pikes are charged over the first Ranke, they present a fearefull sight to the enemy, and double the strength of the fouldier standing fortified, as it were, with five, or fix Pikes, and feconded with a maine force at his backe, as the figure sheweth. Moreover they that are placed after the fixt Ranke, albeit they puth not with their pikes, yet thrufting on with the weight of their bodies, r'enforce the strength, and power of the Phalange, and leave no hope for the File-leaders to flie, or shift away. Some would have the hinder pikes longer, then the formost, that they of the third, and fourth Rankes might beare out the heads of their pikes equally with the first.

6 The Superordinary Lieutenant of every Syntagma must be a man of understanding overfeeing the fouldiers of his command, that they file, and ranke; and if for feare, or other occasion, any for sake their ground, he is to compell them againe to their places; and in Closing to put them (when neede requireth) as neare vp together, as they should stand. For it is a great strength, and assurance to the Phalange, to have some principall Commander not onely in front, but also in the

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CHAP. XIIII.

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Litterno.

" other hair

Greece. And first overthrowing the Elyrians, Pasnians, Thracians, and Southing after ware tet voon the kingdome of Perflato breake it, after he had enfranchiled the Gracion Cities of Afia. And albeit death intercepted him, yet he left tuck forces to his fonne Aleander, that he needed no other Allies to overthrow the Source Dades to raignery of Perfia. After his death Alexander tooke his langdome, and Armic. har ; = and with it encountring, and vinquilling Davius in two great Battailes, runne thorough Asta like a flish of in himm; renting a pieces ale, that resided, or slood in his way, and La Colde laid the foundation of the kingdonie, which (albeit afterward distiled) continued long A main his Sacceffors. Neither was the experience of their invincibleneffe against the barbarous people onely, but as much as and the Gracians, who will Phillips time were effected the thufe mafters of Armes in Europe. This is cleave by the victories, the Macedonians Deliver obtained against the renowned Cives of Greece both samely and feverally. Phillip overthrew the Phoceans, albeit the Lacedemonians, and Athenians toyned with them. The fame Philip at Cheron an defeated the son er of the Thebans, and Athenians tornel to ether. & Alexander tooke and Jacked the Citie of Thebes, that about that time was accounted the michitest Citie of Greece. h His Lieutenant Antipater foyled the Lacedem mians mayes but the and fen ther King Agis. Antigonus Tutor of King Philip the fonne of Demetrius, broke an Armie of the Lacedemonians and Pea Ca Cana loponetian at Sciana, and chafed out of Greece Cleomenes the last brave King of Sputa. Engles they were not besten in the field by any Nation, but onely by the Ko-Spatt. angesting nere not meaning in the personal mans. And set the indecement of Polybius, doth in this also prone it selfe good. Willes For where the Romans had thefevittories against the Macedonians, ke assigneth this to be the caufe, that the Phalange at the time of the fight had not the proper place, not meanes to vie it owne power in the encounter; folong as the Phalange hath ground enough, and can meete the enemy with aright front, he holdeth it not possible to be toyled, being divided, and in places vneven, he is of opinion, and Was A in experience halb taught, it may eafily be put in a route. I Plutarch compareth it for ftrength (folong as it is one bodie, and maintaineth the Synaspisme iointly) to an invincible bealt; being diffeuered, he faith, it loofeth the force in the whole, and in enery man particular, both in regard of the manner of arming, and also because the violence of it consists rather in knitting of all parts together, than in particular of any mans valour. Three battailes (to praternit ainers skirmsfees,) I finde the Romans has with, and therein forled the Macedonians; One against King Pullip, the fame of Demerros; an other again, Antiochus; the third against on I'm acham Perform the forme of King P stop. " For I page over those, wherein they were beaten by Pyritius, in chief the work. Pulliphraning as Phalange, and not viling the whole together but Hightim against the Romans with the right winge onely, yet had the better, and was too hard for that part of the Roman Army, that togged with him; but the other wings commin into the field fit rather for amerch, than a fight, and not being able to order themselves Paniange-wife, were foon defeated, and the Roman victorious, fell woon the rane of the right wine (where Phillip was, and had now gotten the victorie) and farman the field. Soutiochus enthighll intrue ordering of a Phalange, trusand the attered is horte than his Phalange, and being to fight with L. Scipio, where hee that he are given fall feore, an lext need the front of the Phalange, by making it 16 deepe, be contrary-wife narrowed it, drawn out the depth into 32: whereby he loft the navantage of matching the front of the Romains, and after his horse were beaten, articlem gaue facilitie to the enemy of encompating on that fides. F Perfeus logning battaile with Paulus Amilius, welong a the Photonge continued in the right figure. Hew many of the Romans, an I forced them to retire but following on too esperis, he came to wn-

eaen, and rough ground, wherein the Phalange being diffenered, left faces, and breaches for the Romans to enter and defeat it. So long then, as the Macedonian Phalange had fit ground, and the right property of embattailing, it flood fast against the Romans the greatest fouldiers that ever were, being in their hands, that kiew not how to wie it (as a (word in the hands of a childe) it yeelded to time and fortune. The cause of the strength of the Phalange is aftened to he

2 The manner of embattailing] Which confists principally in ordering of Target, and pike; in closing of the Targets by Synaspilme, and mioint charging of the pikes; which lying out thicke from the front, befides the horror of the fight, give almost an impossibilitie to enter the Phalange. I have alledged the judgement of Emilius : Mutarch in concerning the fight presented by a Phaiange, when the Pikes lie fo charged out of the Emilio. front. Polybius thinketh nothing can refist the force thereof. Livy, albeit many (Polyb.lib.tr. times more than partiall to the Romans, jet in the selfe-same fight betweene Perseus 764.A. and Emilius giveth his indgement thus of the Phalange: The fecond Legion (faith he) Livy Decad, inimuated it felfe into the middle empres aloca and for health after the state he; s.lb. 37,1,C. initinuated it selfe into the middle empty place, and so broke asunder the Phalange. Neither was there any more euident cause of victory, then the fights in divers places at once, which first troubled the Phalange in turning many waies, and afterward plainly diffoynted, and scattered it; whose forces being vnited and rough with charged pikes are intollerable. If by giuing on in diuers places you conftraine it to bring about the pikes immoueable through length and weight, it entangleth it felfe with confused croffings. If at one time you charge it both flanke, and reare, they fall asunder like a ruinous building. As then they were compelled many waies to answer the Romans, and so to breake their battaile into many parcells. And the Romans upon the first opportunitie of a breach straight waies conveighed in their troupes, who if they had met the enemy in front, had runne vpon the pikes, as in the beginning it hapned to the Pelignans, being too forward to come to hand, and could not have refifted the Phalange falt shut, and serred vp for the encounter : thus Livy concerning the Phalange. Who albeit a Roman, holdeth the same opinion that Polybius doth. " And in another place telling of Philips encamp- " Livy decad. ing, he fauth, he was lodged in a wooddy plot, which was vnfit for the Phalange, 4.116.1.18. especially of the Macedons, which vnlesse it cast the pikes, as it were, a muniment before the Targets, (and that cannot be, but in open ground) is of no great vie. So then if Pikes may be charged out before the Targets, the Phalange is of great We. But, that I may not seeme, to rely upon bare opinion, let wis heare by an example, or two, the experience of the Pike, and Target of the Macedonian against the Roman armes. When T. Quintus Flaminius the Rom: Confull had driven King Philip, and his army x Livy decad, from the strengths neare Antigonia, seeing that the enemy kept himselfe with his 4.113, a. C. Brength, and abiteined from the field, he determined to try the Cities of Theffah3 and having wonne some by force, some by feare, he came before Rhage, and besieged it. He found the siege longer, and more difficult, then any man would haue thought. And the enemy made his resistance, that way, the Confull would hardly have beleeved, he could. For he imagined that all his labour should be in throwing downe the walls. If once he found paffage for the Army to enter, there would after be nothing elfe, but flight and flaughter, as is wont, in wonne-Cities. But after that part of the wall was throwne downe with the Ramme, and the Armie entred the Citie by the breach, it was the beginning of a new and fresh labour. For the Macedomans, that were there in Garrison, being many, and chofen, thinking it also a glory to them, if they could defend the Citie, rather with

armes and valor, than with walles, ferring themselves close together in a deepe Philance, when they perceived that the Romans began to enter the breach drove themout, the place being cumberiome, and hard to make a retreat. The Conful much offended therewith, and thinking that shame concerned not only the delay of winning one Citie, but also the state of the whole warre, (which for the mott part dependeth vpon moments of imall matters) purging the place which was heaped vp with the fall of the halfe-ruined wall, advanced a Tower which in many stories was stuffed with multitudes of armed men, and sent besides Conorts vnder their Enfignes to breake with maine force (it it were possible) the body (they call it the Phalange) of the Macedonians. But the kinde of weapons and fight was more aduantagious for the enemy, than for the Romans; especially in that place, which was narrow, and streightned with the small space of the ouerthrowne wall. When the Macedonians, ferring themselves close, had charged pikes of a great length before their front, and the Romans, after their darts throwne in vaine against the Testude compacted, as it were, of the thicke knitting together of the Targets, had drawne their twords, they could neither come vp close. nor cut a funder the pikes. And in cafe they cut the heads of, or broke any, the steale amongst the rest of the whole pikes filled up the roome with their sharpe fragments. Toyne that that part of the wall, which was yet whole, fecured the enemies flankes on both fides; neither needed they much ground in retiring or advancing to charge, which things are wont to cause the breach of array. There also fell out a chance which increased their hopes, and spirits. For the Tower being driven on vpon a rampier, that was not well rammed underneath, but had loofe earth, one of the wheeles finking deeper into the ground than the rest, made the Turret to nodd, & lie of one fide, that both the enemy beleeved it would fall, and they within it were put in a pitifull feare. When nothing succeeded well, the Confull was cuill appaide, that the Macedonian fouldiers, and kinde of Armes might seeme matcheable to his, and seeing no great hope of speedy winning the Citie and that the place was vnfit to winter in, raised his fiege. So here the Macedonian (ouldier is not onely equalled, but also preferred before the Roman, and that onely by reason of his armour, the Pike and Target. In other experience fell out in the battaile betweet Perseus, and Emilius, whereof I spake in this Chapter. The storie is this: The Romans comming to iowne battell with the Macedonians, and not able to come up to them by reason of the length, and joint our bearing of their pikes. There was one Salius a Captaine of Pelignans, who tooke the Enfigne of his Company from the Enfigne-bearer, and threw it into the Macedonian Phalange. The Pelignans ranne in heapes to the place (for it is not lawfull, nor honest, for the Italians to forfake their Ensignes) where the medley brought forth wonderfull effects. For the Pelignans fought with swords to put by the pikes, and to preffe them downe with their Targets. And feazing vpon them to pull them out of the handes of the Macedonians. The Macedonians contrary wife, maintaining their charge with both hands, and striking such, as approched neare, thorough the bodies, armes and all, neither Target nor Carace, being able to sustaine the violence of the blow, turned topfy-turny the bodies of the Pelignans, who not with reason, but with the rage of wilde bealts, threw themselves desperately vpon wounds, and voon certaine, and fore scene death. So the formost falling, the followers began to flacke. And yet they flednot, but retired to the mount called Olacrus. I will out of Appian toyne a third experience in the battaile of Antiochus

and by Eumenes, his Phalange of foote being destitute of horse, first opened, and received the light-armed, (that had all this while fought in the front) into the middest of it. Then after-ward againe closed. And when Domitius Scipio's Lieutenant, incompassed it round with horse and light-armed, which he might easily doe, by reason it was thrust vp into a thicke Plinth:um; it was driven to great difireffe; being neither able to charge the enemy, nor yet to countermarch in fo great depth, as it carried. It grieued them much, that their long experience nothing availed them to annoy the enemy, and that notwithstanding they were fubiect to arrowes, and darts at all hands. Yet, bearing out a multitude of pikes on enery side of their square, they called the Romans to come to handy blowes, and still made a countenance, as though they meant to charge, keeping themselues for all that within their Ranks, as being footmen, and heavy armed, and the rather, because they had to doe, with an enemy on horse-backe. Besides they were loth to breake the thicknes of their battaile, which formethey could not now alter. The Romans also, durst not approach them, and come to sword, fearing their experience in watre, and closenesse of array, and desperation. But running about here, and there, p'ied them with arrowes, and datts, whereof none was throwne in vaine, falling amongst a troupe so closely put vp together, that they could neither avoide, and decline any thing throwne, nor give way, albeit they saw it comming. At last being weary, and irresolute what to doe, they retired eafily, with a threatning countenance notwithstanding, and in good order, and not delivering the Romans of feare, who durst not yet come neare, but fought to annoy them aloofe; till the Elephants placed in the Macedonian Phalange, being affrighted, and not to be ruled by their Gouernours, troubled all, and gaue occasion of flight: hitherto Appian. Out of shese three examples, the truth of that , which Elian faith, is to be feene, that is, that the Macedonian Phalange cannot be forced, or resisted by an enemy, (taking with all Polybius his caution) if it be in the right posture, and figure, and have such ground, as is fit. The Romans the best fouldiers of all antiquitie were repulsed by it at a siege, forced to retire in a battell, durst not come neare it, after they had gained the field of the rest of the Army. And the Confull Emilius, aman that had seene much service, and fought many a battaile, and was one of the best Generalls of that time, confessed, he never faw to fearefull a fight, as when he beheld the Phalange advancing into the field, the bodies toyned, the Targets ferred, and locked together, darting out fire like lightning, the front rough with couched, and charged pikes, and armed with yron, and threatning present death to

3 Occupying two Cubits of ground \ We may not take it, as though the fouldier betwixt file, and file had two Cubits, or three foote of ground. For we learned before that in locking up the Phalange, the distance betweene man, and man in front was but a Cubit. But it isto be understood betweene ranke and ranke. For Polybius faith, that the fouldier ought to have roome for the vie of his weapon, which cannot be, without granting him three foote behinde, the pike being some-times to be pushed forward, Some-times to be drawne backe, Sometimes otherwise handled, as occasion of fight fall

bim, that durft approach.

The length of the Pike is 16 Cubits] 2 Sixteene Cubits, which is twenty See Leo caps. foure foote, is a great length for a Pike, and it verifieth the words of Livy, 5 ? & cap.6. that the Macedonian Pike is vnwealdy, by reason of the length, and weight;

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racis. 100. B.

lib a git. C. 6 10 0.1.17

704.A. c Polyb.17. f Lco . ap 6.

malo hilibs. 104. A.

E Po'vendib 2 yet doe weeread of pikes of that length . The b Acoffans had fuch . The Chalybes Lichanno pikes were about 15 cubits long. " But 16 was the length at the first, the Maccdoniexemption de ans brought it to 14, which they tooke to be a sufficient length against the enemie, and eaix, care or fier for tre Pike man to heare and handle.

The space in charging betwirt the handes taking up two cubits | Herein is a difference betweene Alian, and Polybius. Alian would have no more, then 2 cubits lost in charging; Polybius faith 4 are lost, and with Polybius agreeth Leo. Butthe cause of the difference artiet out of the forme of the pike, and of the manner of holding it in the charge. If it be held at the buttend with the right hand, and supported toward the armed end with the left, as the manner in charging is it cannot loofe about two cubits. and A van is in the right. But if, in holding it, you let the right hand 2 cubits from the buttend then must 4 cubits of necessitie be loft. Whereof 2 rest behinde the right hand. the other two are tak nop by the pace between both hands. Our marner of charging is at this day, to take the buttend in the right hand, and in fo doing we loofe but in ocubits. But it seemeth our pikes are not made in that forme, they were in Polvbius time ?. In Polybius age they had wei his at the but: end to make the sharpe end the lighter, as the g Pol b Liz, heavie pummell lighter eth the fword in handling. 8 This weight was called h secoma. h colar tolh celai. Vol-laxio ... ma. any thing elsewhere then in Polybius, concerning the counter-weight of a pike. To the handle of an Oare, I finde in Atheneus, that lead was added, to make the part standing out from the shippe more light. But yet Polybius, and Elians opinions may well agree. and in pikes that have counterweights at their ends (the hold for charging being taken two cubits from the butt end) there may be lost foure cubits , where the other fort being held at the butt end it felfe, loofe but 2 cubits.

The pikes of the other behinde, cannot reach to the first ranke] How shall they beare their pikes then? & Polybius sheweth, what the manner was. Those rankes, faith be, that stand behinde the fifth, can helpe nothing to the fight in front. And therefore they charge not their pikes low, but beare them towards their forestanders shoulders, the points somewhat erected to secure the battaile from aboue, intercepting by their thicke lying the miffine weapons, which flying ouer the front, would otherwise fall voon their heads, that are placed toward the reare. Polybius faith the manner was , (neither to charge, nor order their pikes , but) to beare them forwards floping towards the shoulders of their compeniors before. Tet by bearin them to what fecurity they could rue from the miffine weapons, that came aloft, I cannot get conceine. An arrow, dart, or stone, unlesse it his inft on the middest of the pikes, would do as much, and sometimes more, harme by glancing, then if it had not toucheathem at all.

Some would have the hinder pikes longer] The opinion of them, whom Elian here freak thof, hat little reason to ground upon. For either the pike of th milat come in the fluerancks behinde, especially the two last, must exceed in length, or elfe the fileleader pikes in horineffe, both which are like emprofit ble. If they beetoo long, they cannot be weilded to the fe to fort, the enemie fall reach the file-leaders, and not the The leaders the enemie. The measure of the Ungest pike was 16 cubits, which yet for aptneffe and vie was by the Macedonians reduced to 14. Say then the fixteenth ranke carrieth pikes of 16 cubits; two of the cubits according to Elian, aretaken away in handline, of ertinby reason of the distance of the fine former rankes. Foure cubits alone remaine, and reach ouer the front. If the file Leader in the front forten his pike to foure cubits to make an even extention, he first not come neere the enemie by ten enbits, who in suffing will reach home to him. For what length soener, is taken from the file-leader in front.

front the same is given to the enemie, that puspeth with him. And hee shall bee able to wound the file-teader, and not the file-leader him, especially the pikes differing in fogreat

The superordinarie Lieutenant of every Syntagma] I have before noted the dutie of a Lieutenant of the Syntagma, and it is here well expressed by Elian. He, that desiresh to see more touching the same, let him resort to Xenophons Cyropædia : lib. 3. 28. and lib. 7. 178. B. and to Leo, cap. 14. 679.

> The place of the light-armed, and the number of every file.

> > CHAP. XV.

Hus much of ordering and marshalling the armed-foote. I will adde a word, or two, of the light-armed, or naked. The Generall is to place the light-armed so, that they be readie for all attempts of the enemy, sometime in front, sometime in flanke, sometime in the Reare, according to occasion or neceffity. For our purpose let them be thus ordered : We will frame also of them 1024 files as many, as the Phalange of the armed conteined; So that the first file of the light-armed be placed directly behinde the first file of the armed, and the second file behinde the second, and so the rest. 2 Yet shall they not be sixteene to the file, but halfe so many, namely eight; so that in 1024 files there shall bee eight thousand, one hundred, ninety two men.

Notes.

Itherto all things concerning the arming, filing, embatteling, number, command, distance and precedence of the armed are declared; and likewife, of the arming of the light and somewhat of their place. Now followeth the filing, ranking, and place more exactly, and their manner of embattailing, with their feuer all bodies, and commaunds.

1 The Generallis to place] I have spoken somewhat before of the placing of the light. I will now onely adde a passage of Leo tending thereunto. Leo saith thus, you aleo cap. 14 shall range the Archers behinde the reare of every file according to the number \$ 69. of the file, (that is four elight for twenty fix armed, proportioning on Archer for every foure armed. Or if is be needfull, you thall order them within the files, an armed, and an Archer. Sometimes without the wings of the battaile; that is within the Horse. Oftentimes without the Horse a little distance, with a few Targetiers, to defend the vttermost flankes of the Horse. And this is to bee done, when you abound in multitude of light-armed. But those, that vie small darts, and iauelins, and fuch like are to be placed, either in the reare of the armed, or in the wings of the battaile, and not in the middest. The slingers are alwaies, to bee set in the wings. Thus Leo placeth his light armed. But Elian here (as before in the seuenth Chapter) designeth their place in the rearc, but so, that hee leaueth is to the Generalls choice, and to the occasion of service to place them, as most besitteth. Being set behinde, us Ælians order is, they must answer the armed in number of files, & be directed by the files of the armed for their flanding; that is every file of the light-armed is to order it selfe in a

of Ælian.

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right line after a file of the armed in such manner, as the armed are before embastailed.

Elian in the beginning dusided the soste into three parts, Armed, Targetieres, and light-armed. To the armed be bath gruen place, and maketh the Phalange to confiss them, the light-armed herangeth in the reare of the armed, what shall ecome of Tage, there is be sheated not a word of placing them. By that tread in Artian I would think, they were placed among if the light-armed, and next to the armed. First because Elian shith, many number them among if the light-armed (see the Hypaspitis placed between the too so, and the armed in Alexanders sields as Granicus, at Ilios, and as Gaugamelas (assets) the too so, and the armed in Alexanders sields as Granicus, at Ilios, and as Gaugamelas (assets). On the passets are critical, when he placed the light-armed without the store, be in youth Targetiers with them, for their sletges of. Oyrus likewise places here, the inspect Targetiers with them, for their sletges of. Oyrus likewise places here.

them next the armed in the rear; and after them the Archers.

2 Yet thail they not be 16. The file of the light-armed is leffe in number, then the file of the armed. For if they fould be 16 in file, the number being but halfe to the armed, they fould not be able to make aboue 512 files, and breeding there by a diproportion both in placing, and core foundance ene to an other, not equal the length of the Phalange. Befides flanding eight in file, and in the reare; their flying weepons will be efent with more force againft, their enemies to no small so the findermost of them are never the enemie by twentie four efoote, which the last eight in a file of 16 deepe take up. And miss flue waspons, the left eitheir compasse is not seen they are fent against a marke, with more wiscence they piece. At they have not greatly, if the a listence be look are a ferm whence.

they come.

The names of the bodies of the light-armed.

CHAP. XVI.

Heir names and degrees are these. Foure files of light-armed are called 'a Syftasis of 32 men. Two Systasis a' Pentecontarchy of 64 men. Two Pentecontarchy of 64 men. Two Pentecontarchy of 128 men. Ineutry Century ought to bec 5 Supero Minstie men: an Ensigne, a Resu-commander, a Trumpetter, a Serieant, and a Crier. Two Centuries containe 256 men, and are called 4a Psidney. Two Psilogiesa Renay of 512 men. Two Sensasies a Systema of 1024 files, 8192 men. These ought also to have 8 Supero dinatie men, whereof foure should bee Epixenages, the other foure Systemmatarchs.

Notes.

A Sthe sermed were distinguished, and seuered into divers bodies in the Phalange, so are the light-armed, in whom there out is to be no lesse order, then in the armed. A multitude which she bringeth with it displayer, and confussion. Neither can any service be expected from them, who by spt divisions are not cass into bodies sit for service. We have before spoken of the manes of the bodies of the armed, and noted, that they were not imposed with such propriet; that they could be applied to no other thing. As the first ware was made, and men sought (a wild beossity spectage to gether) led with surie, and roge, and wor with skill, and he prevaled that we the strongs of specime taught there were administes in Time, in Place, in Order, in instruments of sight, in placing of men, and

in other circumflances. Hince sprume the str of Warre, the divers formes of weepons, and the sigures of Bat ailes. For the speeds fraveing, whereof, the smaller bodies were inverted, of which they constit. In building of a bour, you strik bing timber together, and other mult. r. and then of it frame walls, dores, windowes, rasters, beames, and the vool, whichmuss the allocation ped operates the fastion of the house will appear established the strengther by Leavies, were armed, and after ordered into sucreatible being compassed together. See court for small results of the Phallange. And as all things newly invented, sind in needs of names to assect on the properties of the strength or the sail compassed to the see that the sail things newly invented, sind in needs of names to assect on the person of the Phallange. And as all things newly invented, sind in needs of names to assect on the person of the Phallange. And as all things were ginen winto the bodies on top roper, and sit, but such as whitary with strough convenient enough to signific the things they meant. I have noted it before in the names of the Tetrachy, sais, Syntagma, and other, and sit will appeare agains in this such as the second of the terrachy, sais, syntagma, and other, and sit will appeare agains in this such as the second of th



he armed in such manner, as the armed are before embathailed.

ng divided the sour into three parts, Armed, Targetieres, and med he hath given place, and make th the Phalange to consist of berangeth in the reare of the armed, what shall vecome of Tage.

a word of placing them. By that Iread in Arrian I would think, if the light-armed, and next to the armed. First because Alian wamong if the light. Then I (ee the Hypaspiss placed betwitt in Alexanders stelds at Granicus, at Islos, and at Gaugame-slage before recited, when he placed the light-armed without the inters with them, for their lasgard. Eyrus likewise placeth he reare; and after them the Archers.

at be 16.] The sile of the light-armed is lesse in number, then if they should be 16 in sile, the number being but hilfe to the able to make about 512 siles, and breeding there by a dispropor-

corespondence one to an other, not equall the length of the Phaeight in file, and in the reare, their stying weapons will bee sent heir enemie; in as much as the hindermost of them are neerer the oote, which the last eight in a sile of 16 deepe take up. And mis

their compasse is, when they are sent against a marke, with more they hurt not greatly, if the distance be too farre, from whence

he names of the bodies of the light-armed.

CHAP. XVI.

*

of 128 men. In euery Century ought to bee 5 Superordinarie re-commander, a Trumpetter, a Serieant, and a Crier. Two 6 men, and are called 4:1 Pfslagy. Two Pfslagiesa Xenagy of ies a Systremma of 1024 men. Two Epixenagies a Stiphos of os an Epitagma of 1024 files, 8192 men. These ought also use men, whereof foure should bee Epixenagies, the other

legrees are these. Foure files of light-armed are called 'a n. Two Systasies a * Pentecontarchy of 64 men. Two Pente-

Notes.

listinguished, and sewered into divers bodies in the Phalange, so d, in whom there ought to be no lesse order, then in the armed, d bringeth with it disorder, and consustant. Either can any serm, who by opt divisions are not call into bodies sit for servece. We sames of the bodies of the armed, and noted, that they were not extra they could be applied to no other thing. At the first warre ht (as wild be assigned together) led with surie, and rage, and walled that was the strongest. Experience taught there were as

ce, in Order, in instruments of fight, in placing of men, and

in other circumstances. Hence sprung the art of Warre, the divers formes of weepons, and the sigures of Bat ailes. For the speedy framing whereof, the smaller bodies were invented, of which they consist. In building of a house, you first him timber together, and other matter, and then of it frame walls, dores, windowes, rasters, beames, and the roof, whichmust he all conioned together, before the sashion of the house will appeare: So man Army the proutsion of men was sirst requisite, which being sound, and brought together by Leavies, were armed, and after ordered into several bodies; and these being compasted together. Set out the frame and sisting of the Phalange. And as all things newly invented, stand in neede of names to assert them from other things; So names were given what the bodies not proper, and sit; but such as williary with thought convenient enough to signific the things they meant. I have noted it before in the names of the Tetrarchy, Taxis, Syntagma, and other, and it will appeare againe in this Chapter.

of Alian.

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-ASyHasus

A Dentecontarchy The hight,

The Front

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right line after a file of the armed in such manner, as the armed are before embateatied. Lians in the beginning divided the soil into three parts, Armed, Targetieres, and light-armed. To the armed be hath guenplace, and maketh the Phalangs to consist of them, th. light-armed herangeth in the reare of the armed, what shall vecome of Tage, tiers if for he speaked mongrif the light-armed, and next to the armed. First heecaste Ælian shith, many number them amongs the light-armed, and next to the armed. First heecaste Ælian shith, many number them amongs the light. Then I (see the Hypasphits placed betwies the Horse, and the armed in Alexanders fields as Granicus, at listos, and as Gaugame-las stalls. Leo in the passage before recited, when he placed the light-armed without the Horse, he toyneth Targetiers with them, for their stegard. * Cyrus likewise placeth them next he armed in the reare; and after them the Archers.

2 Yethail they not be 16.] The file of the light-armed is leffe in number, then the file of the armed. For if they should be 16 in file, the number being but halfe to the

in other circumflances. Hence from the deat of Warne, the diners formes of weepons, and the figures of Batailes. For the speedy framing whereof, the smaller bodies were inverted, of which they consist. In building of a house, you first bring timber together, and other matter, and then of it frame walls, dores, windowes, resters, beames, and the tool, which mass he all convented between the fallion of the house will appeare so many many the proutson of men was first requisite, which being found, and brought together by Leavies, were armed, and after ordered into several bodies; and these being compassed together, lefore that speaking newly invented, stand in neede of names to assect on the from other things; So names were given winto the bodies not proper and sit; but such as williary with thought converted ment enough to speaking the things they means. I have noted it before in the names of the Tetrarchy, I axis, Syntagma, and other, and it will appeare againe in this Choster.

But here I may not pretermit the cariofitie of the Gracians in their appellations, and their plenty of fleach, apt to give diversities to thing state are divers. For where there is each area, amongsi atmood, and light-airmed, which consist of the same number, and threfore, as it seemes, might well enough have beene comprehended where me name, the notwith thanking to anoide confliction, and for perspiciaties; lake huse thought good to existently sindry names. Thirty two airmed men are called a Dilochi; 32 light airmed are at Taxis; 128 light, a Hecatonitarchie; 64 light airmed a Pentecontarchie; 128 airmed a Taxis; 128 light, a Hecatonitarchie. Our tongue will not afford such variety. For albeit in common sprach we distinguish the kinde of soldiers, yet consonnd we then sime of the body, and of the command. A certaine number of siles conserva (a captaine we call a company of the siles, so many shot where a Captaine of phies, and the other a Captaine of them. A company of Curacers of borse, we call a troope of Curacers; as many Argoletees, a troope of Argoletees. The Commanders of either of them we terme Captaines, the one of Curacers, the other of A Royoletees. But let we some to particular explication.

1 Alýstalis] It commeth of Synistemi to stand together: and alystalis is a standing together; which word albeit it may be extended to any kinde of people assembled, and similing together; yet it is here appropriated to souldiers; and more particularly to 4. siles of iteh anned, consisting of 22 men, 8 men going to the sile.

2 Pentecontarchie] The command of 50 men. And foit was wied of older.
But the Nacedonium, game 5, men to this command, and get retein at the name, because it
was familiar, and nedk moune.

2 A Century I Elian cillethit a Hecatontarchie, the command of a 100 men. The name was visual before the Macedonians time, and it content at 100 men. But the Macedonians gaue it 128 men. This was an fiverable to the Syntagma among it the armed, and had the like officers. Tet whether it had a Captaine, or n. may be some doubt; the rather because Elian in this Chap: nameth no Commanders, but Systrematarchs, and Epixenagies, and though the hard for the armed had a kead, so I would thinke it requisite also among it the light-armed, especially sing there was a Bringer-up, and other officers belonging to a Company; which vinesse they had a Commander, would become comprositable. For if there were no Captaine, to whom should the Crier, or Trumpet, or Stegeant of the Centuries coffer for direction? Adde, that the light were for tender when the winges, to the front, or other places of service, which could not be done without Leaders. For 10 put a Systrematarch, or an Epixenagie to lead a Century, were to leave the reself of the Centuries ender them without a Commander. Besides,

the Macedonians were very particular in their commands, and left no body without a head's which is the caufe of the multitude of Commanders in the Phalange. But they are a ofice 22 20 not here mentioned. No more are the 2 Commanders of the horse in the duiston of the bodies of the horfe, and yet I thinke no man will doubt , but the horfem in had Comman ders. Latty, I finde in the Gracian historie, Captaines of the light-armed often named, " Epithenes is faid to be Commander of the Targetires, in a fight the Gracians b Xenoph, de had avainft the Perfians. 'Stratocles commanded the Cretan Archers in the returne exact CVII. of the Græcians out of Persia. Lurybates Captaine of the Cretan Archers in A. lib. 1. 270 D lexanders army was flaine by the Thebans at the flege of Thebes. " When Antioc Xenoph de exped lib.4. chus the Captaine of the Archers was dead, Ombito was chofen in his place. Mention 322 D d Arrian, lib. is made alfoin f Arrian of Clearchus the Captaine of the Archers. And when Elian 9. Ç. calleth the 4 Syltremmatarehs, and the 4 Epixenages Superordinary (Ectactous) he e Arrian lib might have faid as much of all the other Commanders. And he faith expresty of the offe-57. f Arrian.lib. 1. cers of the Centurie, that they were Superordinary (Ectactoi).

4 A Pfylagi] The word is a body of light armed. Which word, if it were taken, as it naturally lignifieth, is common to, and comprehendeth all the bodies of the lightarmed, whereof Elian feaketh in this Chapser. But here it is restrained to a body of light-armed, which compriseth 256 men, and 32 files, and foit is to betaken.

A Xenagie That is, a command of firangers. Elian before fatth, that a Syntagma was by some casted a Xenagie. I have given my opinion there of the original of the word, which I neede not to repeat here: This onely I will note, that of all the bodies of the light-armed, no one bath a common name with the body of the armed, but onely the Xenagie. And Elian givesh also that body of the armed an other name, calling it a Syntagma. The Xenagie hath in it 512 men, and 64 files.

A Syfiremma] & It signifieth a conglobation, or trouping together. Proper names are g Polyb.lib.1. wanting for these bodies, and therefore such taken, as might at any hand signific the thing meant. In continuance of time wie hath gained a paffage, and made them to be accepted as proper enough. The Systremma conteneth 1024 men, and 128 files. There is nothing to be found in Elian of the Chiliarchie of the light armed; Tet doth h Arrian men-

tion 2 Chiliarchies of Archers in the Army of Alexander.

An Epixenagie] Acommand aboue a Xenagie; As afterward in the command of the horfe, there is an Ephipparchie abone a Hipparchie. The word is improper and hard enough, but whenst is received by wife, what should we feeke for more? It conteineth 2018 men, and 256 files.

A Stiphos? It is derived from fleibo, to thicken, and in penury of an other name, this body of the light-armed is called Stiphos, because they are thickned, and thronged

together. There is init 4096 men, and 256 files.

An Epitagina] Is the last body amongst the light-armed. The fignification of Epitaffa is to place behinde. From thence commeth Epitaxis, placing the light-armed in the Reare, which word is after veed by Elian. Epitagma is derived from the fame fountaine; and it is called Epitagma, not of placing behinde, (for sometimes they were placed before, ometimes in the flanke but it was the best name they could give to the whole light-armed. And yet it may be, that because all the light-armed in auncient time were flaced behinde, the whole masse was called Epitagma, as being placed after the armed in the reare. The Epitagma bath in it 1802 men, and 1024 files, for for many lightarmed attend the Phalange.

Eight superordinarie men Why the se eight men should be superordinarie more than the reli of the Commanders, I conceine not yet, If Elians meaning be, that thefe alone fall command the light-armed, historie and tractife of anneient times convince the

controry. Desides where he nameth foure Epixonagies, it agreeth with the number, that rein be Epitagma of light. But where hee addeth foure Siftremmatarche more :0 make up the number of the eight Superordinarie, it is hard to knowe, which foure bee mesneth, confidering there ere eight Siftremmas in the Epitagma.

Now because the fires of the light-armed are in embastailing to be marshalled to the files of the arme 1,1 though good to fet downe how the bodies of both agree, by comparing them together i files not in number of men. For in number of men they cannot well sorce. because the file of the armed hat more, then the file of the light armed. And the number of the atmed in groffe is 16384, of the light-armed but 8192. And I will firft begin with the Syftafis, because it is the least body of the light.

The bodies of the armed,	The bodies of the light-armed.		
A Tetrarchie	A Systasis,	4	files
ATaxis	A Penticontarchie.	- 8	files
A Syntagma	A Hecatontarchie,	16	files
A Pentecosiarchie	A P (ilagie,	32	fi!es
A Chilisrchie	A Xenagie,	84	files
A Merarchie	A(ystremma,	128	files
A Phalangarchie	An Epixenagie	256	files.
A Diphalangarchie	A Stiphos	512	files
A Tetraphalangarchie	An Epitagma	1024	files

The vie of light-armed foote.

CHAP. XVII.

Darters, Archers, and all other, that vie flying weapons, are good 1 to begin the fight 2 to prouok the enemie, to breake and shatter armour, 3 to wound, annoy, and beate downe a farre of; 4 to disaray the enemy, 5 to repulse their herse, to beat in their light-armed,7 to discouer suspected places, and to lay Ambushes. Lastly these first undertaking the Skirmish, and continuing it with the rest, and feconding them, and feruing 8 for speedie, and farre-of-attempts, worke many, and great effects in fight.

Notes.

He arming, place, filing, bodies, and command of the light-armed are hitherto har-I dled: Now followeth the vie, and service they performe in the field. And first wee areto thinke of the bodie of an armie, as of the body of aman, that is compact of fenerall parts : Of which some parts are of more wie then other , some being able to performe their function without the helpe of the other, some except the other heip, can doe nothing to purpose of themselves. The parts of an armie are like. The armed are the strength of the field, and are the refuge for the reft in extremitie. The light toyned with the armed, worke great effects (the exhibit Alian feaketh of in this Chapter and man; more) without them they cannot formuch as maintaine aplace in the field. 2 And as Nenophon faith, a Nenopho.Cy-Let them be neuer fo many in rumber, yet date they not stand or abidea fewe ros. lib. 7. armed. In which respect, a place fit hath alreades beene fought for their fernice, to secure them from the accoffe of the Horfe, or of the enemies armed. Which place was either be-

hindethe Phalange (as Alian here would have it) or elfe in the wings between the Horse, and the armed, or if they skirmished loose before the front, and chanced to bee presled with the enemy, they retired into the internalls, and conneied themselves behind the bico can 14 Phalange in safetie. Leo Saith, if there be any place of thrength, it will much helpe the light-armed. For after their flying weapons spent, reciring thither, they will be in more securitie, as a steepe rockie place, or the bancke of a river, or a high hill, or such other. Our stories report, that at the battaile of Agincourt in France 200 English Archers were bestowed in a meddow fenced with a deepe ditch : from whence they lo gauled the French horse and foot, that they were a great helpe to the victorie. The like happened before at Poitiers, where that braue Prince of Wales eldest some of Edward the third, bauing to fight with the whole power of France under the leading of their King, gane fafegara to bis Archers, with hedges, and ditches, and other strengths. So that the French-horse having no accesse to disorder them , were overwhelmed with the tempells, and flormes of their arrowes, and fuch a victory obtained by our nation, as might match the most renowmed of all antiquitie. To say nothing of the invention which Hentie the figth ofed against the horse of France for securing his Archers. The stories aith. he denifed stakes of two yards long, and armed both ends with pikes of iron, the one to flicke into the ground, and the other to gall, and enter the horses bellies, in case they came to charge our Archers home. By meanes whereof he caried the famous victorie of Agincourt. This for the affurance of the light armed, when they come to fight, without which assurance, their service would be weake, and scarce worth the having. Their service then according to Alian bath many particulars. And they are good to

Prouoke the enemie If the enemie be in a wood, a fenne, a bill, a fort, a towne, or other place of firength, that admitteth no accesse, the manner hath beene to send out the light armie to show themselves, and with a Brawado to towle him out of his advantage, and bring him into the field, where he may more cafily be dealt withall. Examples are plentifull, but I will content my felfe with a Macedonian example. Alexander leading his armie against the Triballs, that had hid themselves in a wood, commanded his Archers, and Slingers to runne out, and to shoote, and sling amongst the Barbarians to see, if he could towle them into the plaine. The Archers, and Slingers spared not to let file, and the Triballs being wounded with arrowes, threw themselves out of the wood with all speed, to fall upon the unarmed Archers. Alexander presently commanded Philotas with the Horse of upper Macedonia to charge the right wing; on which part they cast out themselves furthest. And Heraclides, and Sopolis with the horse of Botties, and Amphipolis the left, himselfestretching out in length the Phalange of foote, & fetting the rest of horse before the Phalange, led against the midst of the enemie. As long as it was but a skirmish, the Triballs had not the worst. But after the Phalange close serred came vp roundly to them, and the Horsemen charged them no longer with darts, but preffed, and ouerbore them with their horie, they fled thorough the wood to the riner.

a Leo cap. 14. To beginne the fight] 4 Leo agreeth. If faith he, we have light-armed enough, let them, before the armie joyne, fend their darts, and arrowes at the enemie, and 1.16.2 39.B. after the fight of the armed is begunne plie the flanke with their missiue weapons, that at ouce both their flankes may be affaulted. It hath beene and is now the ordinarie course to beginne the fight with the light-armed. And because wee fall read of no bassaile almost wherein it was not fo, I will forbeare examples.

To wound a farreof] The light ferue to great purpofe , if the Generall defire not to La micros. 4. come necreto fight, but leeke to annoy his enemie a farre of without danger of his owner 18.2.161. B. folkes 'Liny telleth of Cn. Manlius Volfo, that being to make warre against the Gallo Græcians,

Gracians, that fled into the mountaines, and awaited the Romans there, and lought to defend themselves, by advantage of the place, he prepared great plenty of darts, arrowes, bullets, and [mall stones for Slinges : and leaving his legionari. foulaiers behind, led his holt armed, against the enemy, that possessed certaine straights, by which his armie must paffe. After Tome fight the Gallo-Gracians being not Sufficiently armed, to d fend their bodies from the missue weepons, the light-armed of the Romans forced the passage. And following them even to the Campe, where their Companions came to their aide, they first drove them into their Campe, and after the Legion irie Souldiers comming up, they wonne it. I have before rehearfed the historie of Iphicrates, who with his Targetires (that came (eldome to hand blowes but plied the enemie with dar s a farre of) onerthrew and slewe awhole Moira of the Lacedemonians. The Acarnans, likewise with this kinde of fight, much incumbred Agefilaus, that made an excur fron into their Countrey, The flory is this, Agefilaus having taken a great prey, in the territory of the Acarnans, exenoph hift, rested that day, where he had taken it being busie in selling of it. In the meane time many 513. D. Acarnan Targetieres affembled them (elues together, where Agetilaus was incamped woon the side of amountaine, and with darting and slinging, they forced his Campe to descend to the plaine, themselves in the meane time being free from hart. The next day Agefilaus led away his armie. The paffage out of the place was straight, hy reason of the mountaines lying about in a circle, which the Acarnans polleting, plied the Lacedenionians with darts, and stones, from the higher ground, and sometimes descending to the skirts of the hills, they pressed the armie fo, that it could not move forward. And when the armed, foote, or hor (e, fell out opon them, they profited little : For the Acarnans retired immediately, to their strength. Agesilans perceiving it would be hard for his armie to winde out of those straights, to long as the enemy so hung vpon them, refolued to charge those on his left hand. For the ascent on that side was more easie, both for his horse, and armed foote. Commanding therefore, his men to charge, the armed of 29 yeeres of age) first fell on , and the horse after them vpon the fourre. Himselfe followed with the rest. The Acarnans therefore, that were descended, and busie a darting, were quickly put to flight, and many flaine in feeking to remount the hills. But their armed foote, and most of their Targetiers, stood imbattailed on the toppe, and from thence both threwe other miffines, and lanced lauelines, wherewith they wounded horfemen, and killed fome horfe. But being ready to be charged by the Lacedemonian armed, they fled looling fome 200 in the flight. Thefe light-armed then, as long as they can keep aloofe from the enemie, annoy them (ore by wounding (as E ian (aith) a farre of; as (oone as the armed come up, they are glad to quite their place, and faue themselues by flight. 4 To difarray | So long as a battaile remaineth in order, no will orie is gotten against

it. Breaking of array, and disbanding, are companions of flight, and of for sking the field. The armed, that are to endure the efforts of the light armed, must either keepe still their order, and luffer themselves, to be knocked downe, and slaine, as they stand, or else provide for themselves, by flight, or by yeelding. For the light-armed effect with their missive weapons the one, or the other. An exampleman be seene in the Ægyptians in exenoph. Cy-Crasus his battaile, who after the defeate of the rest of the armie, maintained yet the fight, and reclaed not to Cyrus, though he had now the victorie. Cyrus at the first charged their backes with his horfe, and being not able to breake them, was faine to command his Archers, and darters, to shoote and cast their darts at them: wh. rby the Egyptians after many wounds, and loffe of their people, were finally confrained to yeeld. A like example is before alledged of Domitius the Lieutenant of L. Scipio, who with missive Appianing weapons alone forced the Macedonian Phalange to featter, and take them lues to flight.

The Tacticks

5 To repulse their Horse The light armed alone, without a fure retreate to the armed or elle some place of trength, can are little in repulsing of horse. I have shewed + Charles befreiathe exploite of Craffus into Perfia, bow the light armed were beaten into the Persian borle, and by the flew of wounds, they received, and with their feare, defeoue Plus in Ant. raged the armed. The like happened in Antonies retreate out of Perlia, the lightarmed being faine to Broude them felues from the Perlian horfe within the Phalange of the armed. Be they never lo many without lome such affurance the horse will loon overrunnethem; having this affurance their feruice much afflicteth horfemen both in wound Luderah a ding them, and in killing their horfe. I herefore of ancient time it was voluall to minele 1.b. 1.16. A. E. horfe, and light armed together. For the enemies horfe fo charged, cannot be able to ree Hat unde beil sonicin fift both. Anotable example is in " Hirtius : Cafar, suth hee, having a journey in hand, and but a small number of Horse, and legionary Souldiers, was in his way fer you by the enemie abounding in flore of Horfe, and of light armed Numidians amongst them. And when the Souldiers of Cafar fellout to charge, the enemies horfe galloped away, and the foote flood fast, till the Horfe with a full car-

representationed to the refere. This kinde of fight troubled Cafar much , and would have troubled himmore, had bee not recovered hills that were not farre of, and by that meanes (baken of the mole ting enemy. And for repulling horse there is no better meanes for the armed foote, then with the light armed to line that part of the battaile, where the borle Ball be about to give on .

6 To beat in the light armed The light armed being nimble and quick, and feeking alwaies aduantages by changing of ground, can never be forced by the armed foote. (who are charged with heavie furniture, and by rea(on thereof can make no speed) to seeke succour in the battaile of their armed. Either they must be beaten in by the horse, or by the contrary light armed, as Alian bath heere. The Horse are commonly to encounter with Horse, and the light-armed with light-armed, among st whom the greater number prevaileth, their skill, and armes being alike. For the fight being a farre of, many will I Xenoph. Cy. fooner wound, or kill a few, then a few many, faith i Xenophon: If the fight bee at rop.lib. 29.E. hand the better armed, or better minded will drive the other out of the field. The 3 Roman Horse, and the light-armed, were too bard for the Macedonians, and chased them to their Campe. And that happened by reason their armour was fitter to close and to fight at hand. So our Archers at the battaile of Crefly compelled the Genua croffebowes to for (ake the field, the english bowe being better in wie, then the Genua croffelowe. When they have made the contrary light armed to quit their place, they are at li-

berty themselves to serve where most admantage may be had of their service.

7 To discouer suspected places, and lay ambushes] Suspected places are such for the most part, as ambushes are laid in. Ambushes are of two kindes, being laid either to endamage the enemies battell in the field, or to hinder, and disapoint his march. The places, such as are removed from fight, and had neede of special discovery. As woods, mountaines, forrells, rockes, banckes of rivers, caues, hills hollow, and deepe waics, and the like, The most part of which are rough, and intricate, and scarce passable for the heavy armed, and horfe. But the light armed that are not incumbred with weight of armes, & able quickly to advance, or retire, are fitteft to lie close in such places, or to fearch if the enemie be lo to dithere. For the first kin de of Ambushes wee read, that both heavy armed, and horse haucheen imploied. The warres of Anniball in Italy afford plenty of examples berein. For the other, which is to b fet or discouer wates, there are none fo fit, as the light armed, whose quicknes, and expedition, quicibthen advantage to a fault their enemy with their mifine weapons, thought' eground be never fo vicquall, and meanes to view any place suffered without almost any danger of their owne.

S For

8 For foeedy and farre attempts] A heavie armed man is not fit for farre or suddaine attempts; he is armed for a firme and fledfast fight, and not for concursations. Alexander, when locuer he was to ofe expedition, tooke with him the horfe and light-armed leaving the armed to come after. So did be, when he oppressed Clytus, and Glau- a Arrian lib.t. cias in their campe . I fo when he possessed himselfe of the strengbes of Cilicia; foin pre- 7.D. harringlib. uenting of the burning of Tarlus ; do in feeking to take the straights of the Vxians, 3.LE. and the gates of Perlia and the rocke of Aorne. The same hath beene the manner of Arrianliba. other Generalls, as I have noted in other places. For when Celerity is requisite, who fo fit a Arrian 1.3 to be imploied, as they who have nothing to hinder their feed. ? The Targetiere had but 64 E. a light target, and a fp. are; the light armed but heir armes. And what are they? bowe, c Arrianlib.; and arrowes, darts, and flings, which have no weight in them. & Which was the reason f Arrian, lib. 4. alls, that in victory they were impleyed in eising chace to the enemie, that had loft the ??.

feld. The armed vical to follow in good order of basell, the flaughter, and execution in phicage was delivered to the light armed, and horfe. Wherein notwithstanding the counsell of \$2 Iphicrates was held good; take heede (faid hee, to his light armed) of ambushes, h Xenoph de caped. Cyr. and spare not to presse hard vpon there are of those, that flie, till you come to lib 1,26, 8. rivers, or straights, or ditches. For it is dangerous in such places to hinder the e-16.7.416.A.B. nemies flights, leaft feare turne into desperation.

> The falhion of Horse-bastailes : and first of the Rhombes the Wedge, and the Square.

CHAP. XVIII.

Hose, that have written before mee, have diversely framed Horse-battailes. some of suft squares, some longer in flanke, then in front, some like a Rhombe, fome like a Wedge, but none of them have (if I may speake freely) expressed fully their owne conceits. Therefore to make all things cleere, and better to bee vnderstood, I will set downe the seuerall figures of each seuerall kinde.

I Itscemeth the Thessalians whose power was great in Horse, were the first, that vied the kinde of battaile a fashioned in forme of a Rhombe (the invention whereof is attributed to lason) as fittest for all encounters; The Horsemen thus ordered being ready to turne their faces enery way with speede, and not easie to bee surprifed in flanke, or in the Reare. Because the best men ftand in the flanke, and the Commanders in the Angles, as namely the Captaine of the troupe in the front, and in the right, and left Angles those; that are called Flanke-commanders, and the Leiutenant in the Reare-angle.

3 The Scythians, and Thracians have vsed Wedges, and likewise the Macedonians by the ordinance of King Philip. For this kinde of battaile was held of mor exact vie, then the fquare, because the Commanders are placed in a circle; and confifting of a narrow front, it maketh readie passage thorough any distance, and an easier wheeling and returning to the first posture; as having no such troublesome windings about, as hath the Square.

4 The Persians, and Sicilians, and most Gracians made choice of Squares, being of opinion they were more easie to frame, and fitter for joint-mouing of the Horse, and more effectuall in vie. For they are sooner in order being digested into files, and rankes, and in this order alone all the Commanders fall vpon, and charge the enemie with one maine force. Those are best Squares, that double the number of the length to the number of the depth. As when there are eight in length, and foure in depth, or tenne in length, and fine in depth. These in number are of vnequall sides, but in figure soure Square. For the length of a Horse from head to taile compared with his bredth requireth more men in rank, then in file [to make vp the Square] Some allow thrice as many in length, as in depth, and thinke by that meanes a perfect (quare may be formed : because for the most part, the length of a Horse seemeth thrice as much, as the bredth betwint his shoulders. Therefore they give nine in front, and three in flanke. For a multitude of Horsemen yeeld not the same advantage behinde, that soote doe. when in the depth of the Battaile they jointly thrust on; in as much as the Horse helpe nothing to the settlednesse of fast resistance, being neither able to thrust those forwards, that are before, nor yet to linke, and knitte with them, and so to make one weight, as it were, of the whole body; and in case they presse vpon the formoft, by disordering, and distempering their owne Horse, they annov themfelges more, then the enemy. Therefore it alwaies fallethout, that when there are as many Horse in length, as in depth, a Square of number is made, but the fides of the figure are vnequall, the depth exceeding the length in proportion: but when the figure of the Troupe is Square, the number of the fides and front, is vnequall.

Notes.

■ N the fecond Chapter of this booke, the armie was divided into two kindes footemen. and Riders. Footemen againe into three, armed, Targetieres, and light armed. Of thefe three is bither to treated. Riders follow, who either vfed Horses, or Elephants. Horses either alone, or elle in Chariots. Of these Ælian treateth sewerally bereafter. For the arming, and place of Horse in the fielde, hee hath (ufficiently spoken already. The following discourse is: First, of the manner of embattailing horse (wherein he setteth downe the diversity of vage in ancient time) Then of Chariots, and lastly of Elea Flon natural phants. * That a horse is a kinde of beast, that loues man, and is most faithfull with him Pliny testifieth. The vie of him is for carriage, and for service in the field. And in the feruice of the field an armie without hor fe. 15 in a manner no armie. Inhicrates (as I have (aid before) comparing an armie to a mans body resembleth the horse to feete. And as the body bath no power of mouing, or rather removing, the feete being lame, or taken away. So is the armie flow, and unfit for expedition, that is destitute of horse; and may be well resembled to those beasts, that creepe upon their bellies, whose greatest hast is with little speede. The horse do great service in the fuld of themselves alone; and are principally imployed in matters that require quicknesse in dispatch. Therefore are they fit for discoueries, either of the enemies country, or of his campe, or of his marche, or of other things, whereof the Generall defires to have notice. And not for discoveries alone, but to spoile, and destroy, what soener the enemy hath growing, to make prey of his Cattle, burne his houses, kill his people, surprise his places of strength, and to embarre him from doing the like to ces; to bring and conney prouision for our Campe, to that in the enemie, that he goe not out his campe for like causes, to hinder the enemies march by falling on the reare. Briefely all expeditions of celevitie are for the most part delivered to the horse alone. Especially as long as they are in such places, as give them liberty to go on, or retire at their pleafures. Yet are they often iogned with the light armed, as I have flewed. They often joine

likewise with the armed. And if they may come to charge the enemies battaile in the a Diod. Sicul. flanke, or reare, at such time, as our armed charge in front, they endanger all. But for 16, 16, 512, imployment alone against the armed foote many examples of sormer times show, how Pol. lib.; 266 A. B. weake there force is. b And how little they preuaile (especially against armed, that are b Hirounde practized in fight, and resolute Souldiers) The examples I have quoted in the margent bell. African, practical in figur, and require continuers) the examples that questions of the Xenophons opinion, senoth de make the matter cleare. For further confirmation will fet downe Xenophons opinion, senoth de which all be it, it were delivered concerning the Perfian horfe, that came against the arm- bb 3:309. B. ed foote of the Græcians in their return out of Persia get the reason stretcheth to all horse Plus in Anona in cenerall. His words found thus : " If any of you faint in minde (faid he to the Gra- 164. cians) because we have none, the enemy many horse, lethim consider, that ten e Xenoph de thouland horfe-men are no more, then ten thouland men. For no man was euer exped Cyclib. flaine in battaile by byting, or firoke of a horse: Men they are, that performe, whatfoeuer is done in fight. As for vs (the foote he meaneth) our mounting is much more firme, and stedfast then theirs. They hange vpon their horse, and are in feare not onely of vs, but to be shaken of and throwne to ground. We contrariewife haue stable fooring, and shall be able both with great affurednesse to strik. and direct our aime with more certainty. One aduantage the horse-men have. they may more securely runne away. Hitherto Xenophon. And so much is sum-

marily (boken of the service of horse.

The Theffalians, whose power was great in horse] The Theffalians inhabiting about the mountaine Pelius were the first, that fought on horse-backe, and were therefore called Centaures. When they watered their horfes in the river Peneus, the bor fe heades stooping to drinke made the onskilfull multitude, who faw the bodies of men ionned to the shoulders of the horse, conceine, that the upper part was man, and the neither Oxe. For it should feeme her fe were not fo well knowne then , as Oxen, with which they laboured and plowed their land. The Poets therefore fained, that they were monfters compounded of two diners natures, man and oxe, or bull; and that Centaurus, the beginner of the race was begotten by Ixion upon a cloude, which was figured like luno. Howbeit Servius greeth a better originall of the name, faying, that certaine fervants of a Theffalian King seeing their masters Neate, raging with the Brimse (a flie that bireth cattell) got a horse backe, and pricking them with goades, reduced them to their stables; and that they were after called Centaures, Para kentein tous taurous, of pricking the neate. The great Etymologicon giveth yet an other beginning of the name. For where I have Said that Centaurus was begotten by Ixion upon a cloude, which was figured like luso, with whom Ixion was in love : The Etymologican faith, the fonne of Ixion, and of the cloude was called Centaurus : Apo tou ton patera autou kentein ten auran. But d Diodorus Sicul. reporting the historie of the Centaures, peaketh not d Diod Sical. of Centaurus, the father of the race but faith not with standing, that they were bred of a cloude, and that the Nymphs brought them vp, and that they were the first horsemen, and therefore called Hippocentauri which gaue occasion to the fable, that they had two natures. It is generally agreed, that thefe Centaures were Theffalians, and that they were the first horsemen, that are mentioned in any history. And as exceed hist. they were the first, so by reason of their long practise they were accounted the best, the Gracillo 7. most valiant, and the most expert horse-men of all Greece, even to the time of Philip, 644. D. Sonne of Amintas King of Macedonia, who conquered all Theffaly (Saith Flustin) not 633. C. of defire to make him felferich of the prey of that Countrey, but to winne to his g Diod. Sical. amnie the strength of the The Jalian horsemen. Whose service he vsed afterward lib. 17. 573 in all his war. Weither did they sesse service to his same & Alexander in whose greatest Privach. in battailes their vertue clearelie appeareth, and is especially commended by histories. h Pyr- Alexand.

cap 56.

e Pluterch, in Agefilao. Xcnoph. H.ft. grac lib 4. 518 A.

b Enclvd. lib. 1. definit. z 1.

thus also, principally by their valor, put the Romans to flight. Agefilaus returning out of Alia towards his Countrey led his armiethrough Theffalie, and being much incumbred in bu march by the The Talian borfemen, that were his enemies , hee charged them and overthrewethem, and pleased himselse marvellously therein, because with troupes of horse, which himselfe had raised, and disciplined, hee had overthrowne the The salians, that were (fasth Xenophon) so highly renowned for horsemanship. 2 Fashioned and torme of a Rhombe] There are three kindes of borse battailes mentioned by Elian, the Rhombe, the Wedge, and the Square. And the Square is either asuft, [quare, or longer in flanke then in front, or in front then in flanke. The Rhombe was the invention of the Theffalians , and in that forme they volually fought. But where be maketh lafon to be the inventor of it, he afterward expoundeth his owne m aning, attributing the invention to Ileon the Thessalian (from whom also it was tearmed ile) but the chiefe practife to lason. Euclyde defineth a Rhombe in this fort: A Rhombe is a square figure, that hath the sides equall, but the angles not right. That is, the foure fides of the square are of one, and the same length, but the points, which make the angles, are two of them stretched out in greater length, and become more sharpe, two of them brought narrower together, and made more blunt, then the right angles of a Tetragonall fquare. See the figure. It is the fame figure in a battaile, that at this day we call the Diamond battaile, which is (ometimes practifed among st the foote for flew, and exercise sake, but among st the horse I have not seene it practised. And as the square gorth to charge with all the fouldiers, that stand in one of the sides, that is with the front. (for the front u but a fide of the square) (o the Rhombe chargeth with one of the points, which is the front of the Rhombe. Whether of them is of most vie in the field , I am not to determine. For the Square standes the practife of our daies , besides the viage of the Perfians, Sicilians, and moft Græcians, as Ælian faith. For the Rhombe the Theffalians alone (which not withflanding were acknowledged the best horsemen of Greece) unlesse we allow the Wedge for a parcell of the Rhombe , (a Rhombe being but a double

Wedge, as making two wedges, when it is divided in two) and then have wee for the Rhombe not onely the Scythians, and Thracians (both nations very good Horfemen) but King Philip Amintas fonne, and Alexander the great, and bis succeffours. Either of both formes baue their reasons. For the squares they, that veethem, beld opinion (as Ælian faith) that they were essier to frame, and fitter for joint mouing of horse, and Concr in order of file, and ranke, and that the Commanders jointly charged the enemy, which in no other forme could be done. For the easinesset of rame I see no great difference, onely custome, and wife, must in every forme, yea in the squares them clues make the borfeman ready to know, and sake, and keepe his place. The same may be said for the ioint moouing of the borfe. Now to file and rancke is common to the Square with some Rhombes, and as some done in the one, as in the other, the number of the troupe being once knowne, and enery horseman having his place assigned, and the forme resolved upon . into the which it must be cast. For where there are 4 kinds of Rhombes, one, that fileth, and ranketh; an other, that fileth, but ranketh not; the third, that ranketh, but fileth not; the last that neither fileth, nor ranketh (as Elian teacheth in the next Chapter) The first will finde no more difficultie, of fi ing, and ranking, then the square, the two next albeit the one ranke not, the other file not, yet the want of filing, or ranking hindereth no more the readinesse of framing them, then the vse of filing, and ranking helpeth the other. The fourth is rather curious then profitable, as I take, neither doe I finds example of it. And it may bee truly affirmed of it, that the square is much essier to be fashioned. We shall have occasion to speake of the last three in due place. Touching the joint falling on of the Commanders, I confesse the advantage is great. For when the best men (such as the Commanders ought

to be) altogether fall upon the enemy, they are very like to put hard to them, And as it is a great part of skill to bring many bands to fight, fo is it no leffe, to bring the best hands to fight. Many hands make light worke, the best hands sure worke. Now for the Rhombe Elian elledgeth these reasons. First, that it is fittest for all encounters, because the horsemen are ready to turne their faces enery way with speed. Then, that they cannot be surprised in flanke, or reare, having the best men in their flanks, and the Commanders in every point of the Rhombe. And cannot the Square turne faces emery way? They can, but not with the Same advantage. For the Rhombe, which way Sour faces are turned remaineth in the first forme. And whether it be to the right, or left flanke, or to the reare, it keepech fill 4 even fides, and the men of most service in the sides. Besides that one point alwaies affronteth the enemy, Not wilke a Calthrop, which how soener you cast it to the ground, hath one point bearing right up to wound the horfes feet: But the fquare in turning faces to either flanke altereth the forme of the front. In a broad I quare, the front at the first was longer than the fides, faces being turned to either flanke the fides become longer, than the front; contrariwise in the Herse battaile. Besides in such turning of faces the square leeseth the advantage of embattailing, the Commanders, that flood in the front, flanding now in one of the flanks, and being not able to charge the enemy jointly, (the greatest advantage of that firme) and so the from being without Commanders, is subject and in danger of furprife, where the Rhombe , which way focuer faces turne, hath as many Commanders in the front, as at first. But let vs take the borse square in full firength with all Commanders in front; whether Shall that forme be better, than the Rhombe? I dare not affirme it. For where there are two kindes of fight; One with maine force, the other with fleight, and Art; in the first I will preferre the square, in the last the Rhombe. The square for flaughter and violent overthrowing, the Rhombe for piercing, and artificiall breaking the enemies battaile, which last among st great Commanders hath alwaies beene accounted the best kinde of winning. In the fquare all the Commanders fall jointly queon the enemy, and because they are supposed to be the cheife of the Army, in all likely hood they will ower throw the formoft and flay many. Tet by reason of the length of their front, they flicke man to man, and can make no farre entrance, and the victoric hangeth doubtfull, till they have flaine the most of them, that refist, and lo make the rest to flie. The Rhombe contrary-wife, being narrow, and pointed in the front, first forceth a passage with the point, which maketh way to the rest that follow, and then without great labour piercing further, and further, breaketh the adverse battaile, & disperseth, and putteth them to flight, and after doth execution at pleasure. Neither can I make a fitter resemblance. then by comparing the 2 figures, one to an axe, the other to a wedge, both instruments vsed for dividing solid masses of wood. For the axe, albeit sharper, than the wedge, ret bauing the edge drawen out in length, can not by any strength be driven farre into the wood but by doubling many stroaks, and by much labour commeth at last to divide it. The wedge contrary-wife, though not fo sharpe, being once entred, insinuateth it selfe more by litle, and litle with the narrownes of the point, and maintayning the hold it first got, at last forceth it asunder, though it beneuer so tough. So is it in the square, and Rhombe: whereof the square beginneth, and endeth with violence; the other veeth first cunning, and mildenes as it were to enter: being once entred renteth a peeces, and disparteth all that flandethin the way. The manner of our times alloweth not of Rhombes; Experience of former times highly prized them. I will infist open the Theffalians alone, who are accounted the inventers of the Rhombe, or fought alwaies Rhombe-wife. Polybius had Seene their Service, and beene Generall of the Horse in his owne country, and therefore able to iudge. He giueth this censure of them; that in troupes, and being imbattai- 2 Polyb. lib. 4.

led, they could not be relifted: to fight man to man in fingle combat, they had neither will nor courage. What then foould be the reason, they should be so powerfull in troupes? No other, then the forme of their imbattailing, which forme was the Rhombe here mentioned by Elian. In this forme they commonly beat the Gracian, and Persian fourres, and gat the reputation of the best horsemen of Europe.

3 The Scythians and Thracians vied the wedge] The Rhombe is of 4 fides. the wedge but of three: and halfe a Rhombe maketh a wedge, as will be shewed in the next Chapter. The wedge was wfed by the Scychians, and Thracians, and whether King Philip of Macedonia borrowed it of them, I am uncertaine. But I rather incline to thinke, that his Theban Master taught him as well the wedge, as other formes of Dioder See battailes. The cause of my coniecture is, for that I finde that his b fellow (choler Epahis. 16. 110.

C Xenoph haft, minondas beat the Lacedemonian horse at Mantinza in that forme. 'Xenophon recounteth the (lorie to this effect: The enemy (they were the Lacedemonians) ordered their horse like a Phalange of armed in depth, without mingling soote with them: But Epaminondas made a strong wedge of horse also (for before he tells the Theban armed were cast into a wedge) and joyned some foote with them, conceiuing after he had cut in peeces the horfe, he should not misse of ouercomming the other forces of the enemy. And fo going to charge he was not deceived of his hope. Thus xenophon. Of iorning horse and light armed together, I have spoken before: d Dio I. Sicul. And that they were light-armed, that Epaminondas toyned to his horfe, d Diodorns lib.15 pag 502. Siculus sheweth. By Xenophon then it is plaine, that not onely the Scythians, and

Thracians, but the Gracians alfo, when they thought it convenient, wied the horsewedge, and that Epaminondas ordered both foote, and horfe in a wedge. And confidering King Philip was brought up in Epaminondas his Fathers house, and made partaker of the learning wherewith Epaminondas was instituted; it is like in erecting a new military discipline among st the Maccoonians, as he tooke many other things from the Gracians, fo be borrowed this forme, having first seene the notable effect thereof at Mantinea.

Now Elian bringeth reasons, why the wedge was holden better than the square. Let me with lease adde a word or two why I take it to be better than the R hombe. And first it cannot be denied, that the wedge having the same manner of disposition that the Rhombe hath, that is a front ending in a point, where the Captaine standeth : two points of the two flanks, where the flanke-commander flands, the Lieutenant in the reare, and the best men in the slanks, but it must be as powerfull to open the enemies battaile, as the Rhombe is. Then it hath this advantage of the Rhombe that it bringeth more hands to fight. For let the Rhombe and wedge be framed of an equall number, the wedge in figure resembling the forepart of the Rhombe must have the horse that should be ranged in the reare of the Rhombe, orderly couched within the 2 sides thereof : where by both the number of the horse in the fides is increased, and the bulke of the body betwixt flanke and flanke inlarged. And feing both the Rhombe and the wedge goe to the charge with the point of their front, the wedge both hath the property to pierce, and enter the enemies battaile by art, and fleight, as well as the Rhombe, and doth it with more flrength. because of the great number of hands in the sides, which all come to fight. Ione, that the hinder part of the Rhombe ferueth onely to avoide surprizes, and worketh nothing in charging. For after the two flanke points are entred, the rest of the Rhombe growing narrower, and narrower toward the Reare, falleth further off from the enemy, and is content onely to follow the way, that was made to hand by the front, and flanks; without being able to strike a stroke; especially if it preserve the order it ought to keepe: whereas all parts of the wedge are effect wall, the point to enter the fides even to the flanke corners.

where the Reare endeth, to dispart and dissever; and finally to disorder the enemy, whereby the victorie ensueth. And if we may rely upon authority, the authority of King Philip will (way much for the wedge. For valeffe he had held it better than the Rhombe, bee would not have chosen, nor accustomed his Macedonians ton, nor Alexander after reteined it, if he had not beene of the same opinion. Neither aid the euent acceive them: for almost in all battailes their borse thus disposed carried away the victorie. But, as 1 beforenoved, neither Rhombe, nor wedge have found grace in the eyes of the great Generalls of our daies, nor can we tell what to infist upon, till experience hath taught, bow well these formes will agree with the weapons, and Service of our moderne warres.

The Persians made choice of squares] The square is the third, and last forme of horse-battaile that Elian mentioneth; whereof there are three kinds; one with a larger front, then flanke; an other with a larger flanke then front; the third, with front, and flanke equall. All these three were vied among st the Persians, and Græcians. For two of the first, Xenophon may witnes. When Agefilaus, after Tiffaphernes (the King of Perlia's Lieutenant in part of the leffer Alia) had broken truce with him, made an incur sion into Phrigia, h Xenophon telleth, that the rest of his journey was with- h Xenoph Hist. out impediment, till he came not farre from Dascylium. There when his horse-grac lib. 3. men galloped to a hill to discouer the country, by chance the horsemen of Phar- 498.D. nabazus (an other of the King of Persians Lieutenants) being about the same number that the Græcians were, and sent by Pharnabazus vnder the command of Rathynes, and Bancaus his baftard brother, galloped vp the fame hill, and difcouering one the other no further of, than two parts of a furlong, at the first they flood still; the Gracians ordered Phalange-wife 4 in depth, the Barbarians making their front 12 in length, the depth many more. Afterward the Barbarians began first to charge. when they came to hands, all the Græcians that joyned, broke their states. The Persians having Corneil darts killed some 12 horsemen. and 2 horses. Herevpon the Gracians fled. But when Agestlaus came with the Armie to the reskew, the Barbarians againe for sooke the field. The Persians then vied a square longer in flanke, then front : The Grecian a square longer in front, then flanke. But which of the three Squares is most to be esteemed Elian sheweth in the words following, faying thefe fquares are beft, that

Double the number of the length, to the number of the depth \ What the length, and depth in a battaile are, we have seene before. Tet to understand Elian the better, let us repeat, that the length of a battaile is the extension of the front; the depth the extension of the flanke. To double then the number of the length to the number of the depth, is to place twife so many men in front, as in flanke. As for the purpose, 6 in front, 2 in flanke; or 8 in front, 4 in flanke; or 10 in front, 5 in flanke. And that this was the manner of the Lacedemonians appeareth by the Oulamos, or horse-troupe i Physichian instituted by Lycurgus, which was figured Tetragonally with 4 equal sides, and con-Lycurgo. teined in it 50 horse. Now that it could not be a square of number, that is, to have as many borfe in flanke, as in front may hereby be shewed, because no square number will make 50. The nearest is 7 times 7, which amounts to 49. But proportioning the number of the length double to the number of the depth, that is 10 in front, and 5 in flanke, even 50 will arife. So that the horse troops of the Lacedemonians had the number of the length double to the number of the depth, and made a square in the equality of measure of the sides, not in numb r which is the Tetragonall figure, whereof Plutarch feaketh. And where Xenophon (as I have alledged before) reportes's that the hor (emen of Agefilaus mere but a in depth, it hindereth not this truth. For, as I noted before, the ordinary aray of the Lacedemonians foote was 8 in depth. Tet did Paulanias the Lacedemonian

King cast his men into a deepe Phalange against Thrasibulus. Other examples Thane ofledged in the same place touching the same matter. Besides this appeareth to be but a tumultuous fight either of the parties comming foddainely in the fight of the other, and going presently to charge, before they could have time to after the order they then were in. And to fay the horfe troupe of the Lacedemonians ought to have beene but 4 in depth. it must thereof necessarily follow that they were 12 in length, which yet will com: (bort of 50: 4 times 12 makes but 48. Indeed & Leo holdeth opinion, that in a horse battaile, the depth ought to be no more than 4. I will fet downe his words as neare, as conveniently ! can english them. The depth, faith he, or thicknes, as it was of ancient time limited, is sufficient, if it be of 4 horse in every troupe; because in horse a greater depth will be idle, and to no purpose. For they cannot, as foote doe with their thicknes, thrust one an other forward from behind; and so the formost, will they, or nill they, are forced to goe against the enemy. And this is done amongst foote. But the horse can not thrust forward those, that are before them, nor the file-leaders that stand in front, be seconded in that kinde by the rest, that stand in depth after the fourth man. For if they be Lancers, the fift ranke cannot reach with their launces to the front. If Archers, they shall be faine to shoot aloft for feare of hurting their companions before; and so their arrowes serue for no vie, after fight is loyned. Therefore is the number of 4 sufficient in depth, as I have said. This was the opinion of Leo. To which I cannot absolutely affent; unlesse he had given 8 for the front of his troupe, and fo made it of 4 equall fides in figure not in number, as Elian requireth to be done in the best squares. For the reason of launces not reaching to the front in the fift ranke, reacheth not home to the reason of warre. Elian before hath declared, that the pikes of the seuenth ranke reach not to the front of the Phalange. Tet no man will thereof inferre, that the Phalange ought to be but 6 deepe. Tea but the foote that come after helpe the formost, seconding them, and thrusting them on with the weight of their bodies, which the horse can not doe. This must be granted to be an advantage that foote have about horse in depth. Tet are there other reasons also of gining depth to a Phalange : In the order whereof two considerations concurre; one of offence, the other of defence. The reaching of pikes or horsemens stanes over the front is good for offence, that is to annoy the enemy in the shocke : likewise the thrusting on of those that come behind, serneth with the violence to make them give ground. A reasonable depth is for defence, in as much as it defendeth a Phalange against the indeuour of the enemy to breake it a funder. And as it is a fault to make it too deepe, so is it likewise a fault to make it too shallow. Too much depth narroweth the front, and giveth easie meanes to the enemy to incompasse, and oner front it. 1 Too much Shallowne fe on the contrary fide maketh it weake, and ready to be broken, and differented by the enemy, and giveth a passage thorough, and meanes not onely to incompasse the front, but at the same instant also to assault it behind, and so vetterly to defeat is. So that the reasons of Leo reach not home, as I said, there being other caufes of thickning a horse troupe besides reaching of Launces to the front, and toint thrufing on of the horse comming behinde. And where Leo speaketh but of a horse in depth of a troupe, Polybius faith plainely that being ordered for fight, they had for the most part 8 in depth; Polybius a man which lived in the times, whereof Leo Beaketh,

5.108.109.

and had beene Generall of the horse of the Achzans. Besides Leo General not a little to

M. Leo capt. differ from himselse. For in his search Chapter, he writeth after this manner. It

\$ 31. x capt-t there be many horse (that is about exvelue thousand) let the depth be of to. It

hus sew, let it be no more than y. In squares therefore I hald Elians proportion best, to double the number of the front, to the number of the fanke; and as the number of the troupe arisely (for horse troupes are not alwaics of one number) to inlarge the length of

3 The halfe Rhombe is called a wedge being fashioned three square; so that the formethereof appeareth in the Rhimbe.

Other have formed the Rhombe fo, that the 4 Horsemen embattailed in that forme, neither sile, norranke, conceiving that turnings and other motions will be more easily performed in this figure, nothing hindering before, behind, or in flanke. And first they place the Leader; then one at his right, and an other at his left hand, so distant, that their Horse heads reach up to his Horse shoulders, as

..... acyen narroweth the front, and giveth easiemeanes to the enemy to incompasse, and 1 Leo cap. 14. oner front it. Too much shallowne fe on the contrary fide maketh it weake, and ready to be broken, and diffenered by the enemy, and giveth a passage thorough, and meanes not onely to incompasse the front, but at the same instant also to assault it behind, and so vitterly to defeat it. So that the reasons of Leo reach not home, as I said, there being other caufes of thickning a horse troupe besides reaching of Launces to the front, and joint thrufling on of the horse comming behinde. And where Leo speaketh but of A horse in depth of a troupe, Polybius faith plainely that being ordered for fight, they had for the most part 8 in depth; Polybius a man which lined in the times, whereof Leo heaketh, and had beene Generall of the horse of the Achaans. Besides Leo seemeth not a little to m Leo cap. differ from himselfe. "For in his senenth Chapter, he writeth after this manner: If \$31. \$capid there be many horse (that is aboue twelve thousand) let the depth be of 10. If but few, let it be no more than 5. In Squares therefore I hold Elians proportion best, to double the number of the front, to the number of the flanke; and as the number of the troupe ariseth (for horse troupes are not alwaies of one number) to inlarge the length of

3 The halfe Rhombe is called a wedge being fashioned three square; so that the formethereof appeareth in the Rhombe.

Other haue formed the Rhombe fo, that the 4 Horsemen embattailed in that forme, neither file, nor ranke, conceiuing that turnings and other motions will be more eafily performed in this figure, nothing hindering before, behind, or in flanke. And first they place the Leader; then one at his right, and an other at his left hand, so distant, that their Horses heads reach vp to his Horses shoulders, as

I HEY that WOULD have a Known Dock joe wire being the middlemost of an vneuen number, as of 11, or 13, or 15. To which

they ioyne other rankes before, and behind, euery one conteyning two leffethan the former; as if the greatest ranke consist of 15, the next rankes on either side are to have but 13, the next on either side of these 11. and so every one two lesse, till at last you come to 1. And the whole Troope is to confist of 113 horse.

3 The halfe Rhombe is called a wedge being fashioned three square; so that the forme thereof appeareth in the Rhombe.

Other haue formed the Rhombe so, that the 4 Horsemen embattailed in that forme, neither file, norranke, conceining that turnings and other motions will be more easily performed in this figure, nothing hindering before, behind, or in flanke. And first they place the Leader; then one at his right, and an other at his left hand, so distant, that their Horses heads reach vp to his Horses shoulders, as

most part 8 in appen; Polybius a man which lived in the times, whereof Leo speaketh, and had beene Generall of the horse of the Achwans. Besides Leo seemeth not a little to De Leo cap. differ from himselfe. "For in his seuenth Chapter, he writeth after this manner: If \$31. % cap. 4 there be many horse (that is about evelue thousand) let the depth be of 10. If but few, let it be no more than 5. In Squares therefore I hold Elians proportion best, to double the number of the front, to the number of the flanke; and as the number of the troupe ariseth (for horse troupes are not alwaies of one number) to inlarge the length of

the front, and the depth of the flanke proportionably one to an other.

When there are as many horle in length as in depth I noted before in the north Chapter, that there were two figures of equall fides, the one of number, the other of gigure's which two flaures differ in this, that the one makes havegaust lifes in this fispe of the buttaile, the other of gigure's which the solution of the state of ground. When the number of the fides is equall in length, and epits, it giated but halfe fo much ground in front, as in flanke. Each foulaiter, if it is a foote buttaile, occupying a foote, and a halfe of ground in front, when he goth to charge, where in flanke be must have gote, and a halfe of ground in front, when he goth to charge, where in flanke be must have gote a half of order that have fer tropped 3 foote in front, and double, or (as feme [43)) treble as much in flanke. And so are the fides unequall. The cuen length of shake and from gueth a like ground to both, and maketh the fides of the figure equall, but the number of the front double to the number of the flanke, whether it be in horfe once. In foote, because the fouldiers in Ranke have but halfe so much distance, as they bave in file 3 in ranke a foote and a bile, in file three foote. In horse, because the foote and a bile, in file three foote. In horse, because the finan his breadth, and that length is fully stretched out in stanke, the bredith one; in front.

Why Rhombes were first brought into wee, and the diners formes of them.

CHAP. XIX.

THE forme of the Rhombe seemeth to have beene taken up for the necessaries whethereof. For the Capitime possessing the first place, the next following stoffment are not to ranke with him, but to come a litel after on both sides; so that the heads of their Horses may reach to his horse shoulders, & on the right, & less hand, and behind, they ought to keepe good distances that too much thronging and clustering together, breed not disorder, whilest some horse being by nature said and in a single side of the sides of the si

They that fathion Harfe into Rhambes, so fathion them, that some Rhambes file, and ranke; some neither file, nor ranke so ther some file, but ranke not; other ranke, but file not: every particular whereof standerthus.

They that would have 2 a Rhombe both file and ranke make the greatest ranke being the middlemost of an vneuen number, as of 11, or 13, or 15. To which they to yne other ranke's before, and behind, euery one conteyning two lessestant the former; as if the greatest ranke consist of 15, the next rankes on either side are to have but 13, the next on either side of these 11. and so every one two lesses at last you come to 1. And the whole Troops is to consist of 113 borte.

3 The halfe Rhombe is called a wedge being fashioned three square; so that the formethereof appeareth in the Rhombe.

Other haue formed the Rhombe 60, that the 4 Horfemen embattailed in that forme, use there file, norranke, conceiuing that turnings and other motions will be more eafly performed in this figure, nothing hindering before, behind, or in flanke. And first they place the Leader; then one athis right, and an other at his less hand, so distant, that their Horfes heads reach up to his Horfes thoulders, as

most part 8 in depth; Polybius a man which lined in the times, whereof Leo speaketh, and had beene Generall of the horse of the Achwans. Besides Leo speameth not a little to the Leo copy. differ from himselfee. For in his senenth Chapter, he writeth after this manner: I sail there be many horse (that is about twelve thousand) let the depth be of 10. If but sew, let it be no more than 5. In squares therefore theld Elians proportion best, to donble the number of the stronge argent for horse trouges are not alwaics of one number) to inlarge the length of

is faid before. And the first row they make of an vneuen number (as 11). The Leader of the Trope standing in the middlest, and 5 other being laid to him backwardly on either sides; to that this Ranke conteined two lides of the Rhombe. Then the rear-Commander is placed directly befind the Leader, and to him are other io yned sorwardly on either side, and the number of enery following ranke after the sirt, is to be two less than the former, and therefore 4 must be added on either side to the rear-Commander, and the number of the second ranke be 9. This ranke makes the worldes Parallel to the two former sides of the Rhombe. The third must be 7, and so forward to one. The whole Trope that in it 35 Horse. 3 Polytime expresses the former by the Greekeletter A and maketh two consists of 64 men.

Other Rhombes there are which ⁶ file, but ranke not, and are fishioned thus: They make a file of any number, the Captaine of the Troope being File-leader, and the Reare-Commander the last of the file. To both the flankes of this file, they lay two other files, either of them one lesse in number, than the first. These they begin to place, euen with the midded of the distances of the fits file no both sides as if there were 10 in the first file, the next files on either side should have 9 a peece, and the next after them 8 a peece, and still one lesse in all the rest after comming, siles, and so it will fall our, that the Horsemen shall file, but not ranke. This forme is prostable for turning of faces, when need is, from one point of the Rhombe to a nother. 7 Turning to the right hand is called turning to the fisse. Turning to the less thand is called turning to the Raines. But if a Troope be § to ranke, and not to file, it must be ordered thus: The middle and greatest ranke, is to be mide of an vincuen number, and the rest of the rankes on both sides, laid even with the distances of this ranke, as was done in the filing troope. So shall you have a Troope that rankes, but files hot.

Notes.

THE former Chapter had a generall division of Horse battailes into Rhombes, wedges, and squares; this comprehended the supply sigures of Rhombes, and the manner of straining them. Rhombes therefore are of 4 kindes, some siting, and ranking; some filing, not ranking; some rishing, not filing; some neither siling.

nor staking.

I The heads of the horfesteach to the heades of his shoulders] Elian faith, that in a Rhombe the Captaine standers first, and the heads of the next boyle reachts but boyle shoulders. This rule, if it be taken generally, and means of all Rhombes, will decine us; if for two kinds of Rhombs alone, there is nothing more true. The Rhombe nither siling, nor ranking, and the Rhombe sliting, nor ranking, but the followers boyles heads advanced to the shoulders of them, that slind before. But the Rhombe sling, and ranking, and the other ranking not filing, come wholy behind the boyle of the Captaine, as the figure showers, and will appeare in the werball description of the Rhombe.

2 A Rhombe both to file and ranke To make a Rhombe both file and ranke, choicemsif first be bad of an uneuen number for the ranke the middest of the Troupe, where the manner is to begin the Rhombe; which number must neither be too great, least the Troupe grow also too great, nor too lute, lest there be in it no strength. Elian gives a 11, 13, or 15 for that ranke, and willeth us to begin the frame by placing first them middle ranke, to which the other ranks are to be igned on both sides, the middle make.

againg the middle man of the first ranke in a right line of file, and the rest in like fort, early Ranke fill decreasing 2 men, till at last in the front, and reare angle you come to one. The figure of this kinds of Rhombe I buse placed in the pracedent Chapter; wherein the middle ranke is of 11, and the whole troupe of 61, and the horse heads of those that sellow reach and to the former horses shoulders.

3 The halfe Rhombe is called a wedge] I have fooken of wedges before, but noting of the framing of them. Elian here sheweth how they are framed, when he faith, that the forme of them appeareth in the Rhombe, and that the halfe Rhombe is a wedge. For as in 1 Rhombe shing, and ranking, you begin with placing the middle ranks stift, and so praceed adding on both sides ranks to ranks, sill you come to one main in the from: So must you proceeds in a wedge, saint shat to the sift, and greatest ranks, you injust the rest onely on the one side, abating stall to the sift, and greatest ranks to point of the front, where the Captaine standed halone. And this was the ordinarie hoster toward amongst the Macedonians, and is described in the next Chapter.

4 That the horseinen neither file nor ranke | The second kinde of Rhombe Becified here by Elian is directly opposite to the first. The first both filed, and ranked, this neither fileth, nor ranketh; and is that kinde, which I noted in the last Chapter to have more curiofitie, than efe. For the rest, what is more easie to frame, than they? In which either files, or rankes are laid together; or files alone, or ranks alone. And out of that iorning both in the inward parts of the Rhombe, and the outward (that is the flanks) arife, and are without difficulty figured. In this you must first begin with the outsides and make two front lines, or fides of the Rhombe; and after adde as many to the Reare. And then when the 4 fides are framed, and have their place, patch up by peece-meale therest of the body within. Wherein if there be not very large distances left betwist horse, and horse, especially every one being laid head to shoulder to an other, it is not possible to convey fo many horses within the foure sides, as will make up the full Rhombe. And yet make it up as you will, the trouble is more, than in the rest of the Rhombes. And for the vee, I fee not how it can be greater, than in the rest, what soeuer is alledged for turnings, and other motions. And the more I thinke open it, the more I am induced to thinke, that it was the invention of some Tacticke master (of whom were great plenty among it the Græcians) who feeing that some Rhombes filed, and ranked not; other ranked, but filed not; other both ranked, and filed, and that the two first were opposite the one against the other, would needs bring in a fourth, neither filing, nor ranking, to make an opposition likewife against the third. But because this kinde also is Recified by Alian, let us see how it is to be framed. Elian for examples fake would have the Troope to confist of 36 horfe. To put the fe 26 horfe in a forme, that shall neither file nor ranke, we are thus to worke. First, we must begin with the two front sides of the Rhombe, and make them of 11 horse. placing them thus: The Leader and Captaine in the point; next him backwardly on each side a horseman, his horse head reaching to the shoulders of the Captaines horse; then on the outward fide of each of these a Horseman, and their horses heads must likewise reach to the shoulders of the next horses before. So must you goe on, till you have in like manner bestowed 2 a peece more on each side, still opening the two sides of the Rhombe proportionally. Thus done you have - Then are we to fashion the two Reare sides of the portionally. Thus done in the high = Rhombe of g horje, placing were angle dimensional to files of the Rhombe which = manner: The Lieutenant in the Keare angle dimensional forward lower dimensional fo rectly opposite to, & yet looking toward the Captaine; on either side of him forward toward the front 2 Horsemen, their horses shoulders lying even with the head of the Lieutenants horfe. And after them the other 6; 3 on one fide, and 3 on the other in the same proportio. And fo have we the other two fides of the Rhombe in this forme. -which being

ionned to the former make the 4 fides of the Rhombe; In the framing whereof 20 of the 36 horse are bestowed. There remaine 16, which are thus to be ordered : Within the Rhombe we must at reasonable distance place a horseman behind the Cap-Rhombe we must at reasonable assume place a northward to him on each taine in aright line, and in the manner as before lay 3 to him on each

fide. The number will amount to 7, and this is the figure

Then another horseman is to be set at the same distance airestly before the Licutenant, and on ech fide of him two other toward thefront, = And thefe 12 horse toyned together, will fashion out a leffer which will be 5 in all, and in this form Rhombe, comprehended within the sides of the first. So are 32 horse disposed of. The A that are left are thus to be ordered. in a right line againe after the Captaine, and at the former distance is another horsema to be set: Then 2, one of the one side & the other of th' other side of him, their horses heads reaching to his horses shoulders thus The horseman left must supply the voide place, standing directly before him, that stood next And this is the true description of the Troope neither filing, before the Lientenor ranking. I have beene the longer in describing it , because the figure graven is not fully to my minde, no horse head reaching to the shoulders of the horle that (tandeth before him.

Polybius maketh it to confift of 64 men] Ælian tooke the number of 26 hor (eto frame this Rhombe, Polybius requireth 64. The number is not materiall, (othe forme be observed. If you make it of 64, you are to take 15 horse for the 2 front sides, and 13 for the 2 reare sides, and so in every ranke withinto diminish 2, as you did in

6 Which file, butranke not I The third kinde of Rhombe filetb, but ranketh not. It is easie to frame. Take what number of horse you please, and make a file; then lay to the distances between horse and horse of that file on each flanke two other files each file conterning one leffe in number than the first. And the heads of the files are to be laid right against the space which is betwint the Captaine, and his follower, and the rest of the horses against the other spaces successively. In all the paires of files, that follow, and are laid to the flanks, you must still diminish a horse a prece, till you come to the points, which have but one either of them. And of this abatement of one in every file, both front, and reare. and flankes grow into points, and make a Rhombe: As of the even number in every file, a Square battaile would arise. See the figure. This was the forme the Theffalians fought

t after cap 46. in, as appeareth by . Alian.

Turning to the right hand] The turnings of horsemen and footmen to the right, and left hand, are not termed by the same names. And the difference commeth of the discrlitie of weapons caried on the right, or left fide. The horseman in his right hand held bis staffe, in the left the raines of his bridle. The armed-foote in his right hand his pike, on the u Polyenlib, left shoulder his Target. Hence was it, that when the horseman was commanded " to surne to the right hand, they bid him turne to his staffe; the footeman to his pike. When to the left hand, they bid the horseman turne to the Raines, the footman to the Target.

8 To ranke, and not to file This is the last kinde of Rhombe, and it ranketh but sileth not. It is made by a contrary way to the former. The filing Rhombe began at the front point of reare-point, or proceeded to the flanks. This beginneth at the flanke points, or proceedeth to the front and reare. First therefore a ranke is to be laid of what number you list. Elian would have it of an vneuen number; but it will fall out as well in an euen number, as the figure sheweth. To the distances of this ranke you must lay 2 ranks more one on either fide, whose number must be one lesse a peece, than the former ranke. Thus continue laying ranks fill toward the front, and reare, and in every paire of ranks diminish one a peece, till you come to the points, either of which have but one, namely the Captaine, et the Lieutenant, CHAP. XX. and the Rhombe will ranke, and not file.

The ordinary horse troupe consisting of 64

The place of Horsemen in the field, the number of an usuall horse troupe, the degrees, and names of the officers of the Horse in general.

CHAP. XX.

H z Troopes of Horfe, as the light-armed, are placed sometime before the Phalange, sometime on the right, or left hand in flante of the Phalange, sometime behind the light-armed in the Rears. For our purpose, let them be placed in the Rears, and I let the first Troope be of 04 men, and the first ranke thereof 15 Horse The next 13. The next 11; and in all the rest abare 2, till you come to the last, which is one.

² He shall carry the Cornes, that standeth in the second ranke next the Ranke-Commander on the left hand. All the Troopes shall be 64 in number. The horsemen in all 4096. ³ Two Troopes are called an Epilerby of 128 horse. Two Epilerbiss ⁴ a T arentinarchy of 250 horse. Two Expansions ⁵ an Ephipparchy of 1024 horse. Two Epipparchies ⁶ an Ephipparchy of 1024 horse. Two Epipparchies ⁷ a Teles of 2048 horse. Two Teles make ³ an Epitagma of 4096 horse.

Notes.

Inberto of squares and Rhombes, visual horse battailes amongst the Graciaus. The model of the horse battaile of the Macedonians, of which? Elian hath thus afterward: This forme of horse hattaile is called a wedge by Tacticks, and it was invented by Philip King of Macedonia, who placed his bestmen before, that we men the weaker might be held in, and inabled to the charge. As in a sparse, or sword, the point whereofty reason of sharpers quickly piercing mattes have for, and less tabin the middle blant yron. I have spoken somewhat of the wedge in the two last Chapters. Elian in this Chapter showed the manber, and manner of spanning it, and how many it onges ought to astend the Phalange, and conder what offices, and degrees.

I Letthe list troupe be of 64 men] The number of the wedge ought to be 64 boyle. Tou make it beginning (as the Rhombe that ranked, but filed not) with a ranke of 15 boyle. Then mult you proceed toward the front, with an other ranke of 13, the middle man filing with the middle man of the first ranke, and the rest with the risk and of you are to continue abating fill two in curry fallowing ranke, till at less you come to one; who is the Commander of the Troupe, and slandeth in the point of the front.

2 He shall carry the Cornet | The place of the Cornet is not right set downe in the signs. He there standers on the right hand of the middle main of the second ranke, where as he should stand on the less. And you must not account the second ranke to be the ranke next to the Commander in the strong that we still doth, that we is comally place of set of the strong strong the second place of the strong that the corner is to stand the corner is to stand in the Reare. So that the Corner is to stand in the reare ranke to the Reare.

But here is nothing said concerning the distances, that ought to be betwint horse, and horse. Of the distances between soite, and soite he hath spoken in the 11 Chap: But of the distances between soite nothing, but general words. This which wanted in Elian, I will supply out of other Authors. We must vandershand then, that we hinde of distances were observed amongst horsemen; one for marching, an other for sight.

t *after* cap. 4

Polycal

n Polyb lib. 12.

In marching there ought to be 6 foote betwixt horse and horse. Elian hath before given this distance to the foote. And that horse held it likewise appeareth by Polybius. Who reprehending Cal Rhenes for carelefues in describing the battaile betwint Alex. ander and Darius at Isfos, fecially taxeth this : That he placed thirty thoufand horfe, and thirty thousand mercenaries, in foureteene furlongs of length. whereas the place was not capeable of halfe the horfe. " His words have this (enfe; The order of horfe. when they are prepared for fight, is for the most part 8in depth. And there is a distance to be left in front betwixt every troupe, to give liberty to wheele and double-wheele. So that one furlong will conteine 800 horfe; and 10 furlongs 8000; 4 furlongs 3200: And eleven thousand, and two hundred Horse will fill the space of 14 furlongs in length. The words seeme at first somewhat obfoure, being well weighed they will be cleare enough. Polybius faith, that thefe 800 herse were ordered 8 in depen , and that they tooke up a furlong of ground in length. There must be therefore of them a hundred files. For a hundred files of 8 horse a peece. will arile to 800 horfe. Compare then thefe 100 files, (the length of the battaile) to the length of a furlong. And feing a furlong conteineth 400 Cubits, or fix hundred facte every file that have a cubits, or 6 foote pace betwixt them. And fo the distance betwire file and file in a march will be a Cubits, or 6 foote. The other distance of three foote appeareth in " Leo, whose words stand thus : Pur the cuse, that the battaile is of 600 horse in length, and 500 in depth, seing that every horse in length of the battaile possesset three foote in breadth, the number of feete will amount to 1800; And feing againe that every horsein depth possessieth 8 foote, there will arise hereof 4000 feete; so that in the foure-sided figure, out of the length of 1800, and the depth of 4000 feete arise 720 Myriades of square feete. And the Perimeter alone of the outward foure lides conteineth 11600 feete. And because of seete make a fathome, and a 100 fathoms make a furlong, and 7 furlongs, and a halfe, make a mile, the whole Perimeter of 11600 feete will come to two mile, and a halfe, and neare a 10th part. In this diffance therefore according to the closest order, or shutting, the thirty thousand horse are conteined. But if they frand not fo close, you must alter your account according to the thinnesse. and out of the greatnesse of place consecture of the multitude of the people. So Leo. Which place albeit it seeme to require a large interpretation, because many things worth the noting offer themselves in it; yet for this time I will onely infist woon that, which I first propounded, that is the distance of three foote beguint borfe, and borfe, when they goe to charge (for that is the meaning of Leo, when he feaketh of the closest order) which distance is expresty here fet downe. And the matter will jet feeme more cleare, if we adde the words of Leo in the Paragraph next, but one, to this, which are thefe: The oldest Tacticks in ordering of foote Battailes give every man at the first distance foure Cubits; when the battaile is closed two Cubits: when ferred and shut one Cubit. Out of which proportion a Scont may exactly discouer by the quantitie of the place the number, not onely of horse, but of foote also. These oldest Tatticks that Leo mentioneth agree with Elian as wee have feene. But where the foote have three diffances , the borfe are to have but two. The open order of fix foote they ought to have, and likewife that of three foote; nearerer they cannot come together, because of the bredth of their horse, and because they are to have roome sufficient for the weilding of their

The Tallicks

All the Troupes are to be in number 64] A Troupe confists of 64 men, and to the Phalange belong 64 Troupes, as the Phalange conteineth 64 Enfignes, or Sym-

tagma's of armed foote. To which Ensignes the 64 Troupes of horse are proportioned. Their place is according to Elian after the light-armed; not one troupe after, or behind an other, but one beside an other, in one front; and that front in a right line, which stretcheshout, as long as the Phalange of armed it selfe. Now the files of the armed being 1024 in number, and the number of the horse in the last ranke (which conteineth the length of the Horse-battaile, and (hould answer the number of files) but 960, we must seeke out a proportion to make the length of both equall one to another. The difference then betwix them in length is 64 men, which in order take up 192 foote. And where there goe foure Phalangarchies to a fourefold Phalange, and 16 troupes of borfe are placed bebind enery Phalangarchie, we must divide these 192 foote into four parts; enery of which parts will amount to 48 foote, and give to each troupe three foote distance one betwixt an other (for diftances betwixt one troupe, and an other, Polybius holdeth necessary) and so shall the 16 troupes of horse take up as much ground in length as a Phalangarchie. The one conteining 256 files in length which occupy 768 foote of ground; and the other 240 men in the last ranke, which occupy 720 foote. To which adding 48 foote of distance, there ariseth the even number of 768. And so shall the 64 troupes of horse be even in length with the fourefold Phalange.

The names of the Offices , and Commands of the Horse follow, wherein as 1 before noted in the foote, we must not presente one are the property of wards, but take them, as they have beene vied among Souldiers.

Two troupes are called an Epilarchie one troupe is called Ile, and the Commander an o llarch; for so be is termed before in Elian. Two troupes an Epilarchie, o Cap. 18. and the Commander an Epilatch, as it were a Commander over two lles, troupes. He bath 128 Horfe under his command.

4 A Tarentinarchie] Of Tarentines mention is made in the second Chapter. The name of a Tarentinarchie is not given to this Troupe , because it consisted of Tarentimes, but because of likely bood the Tarentine horsemen had so many in attompt, Lenit be, as it will, it fignificth bere a troupe of 256 Horfe, s, as it will, is fignifieth bere a troupe of 256 Horfer.

An Hipparchie Properly signifieth the command of horfe, and Xenophon Weth the word Hipparch for the Generall of horfe; but Elian, and the Tacicks wife

is for the command of 512 horfe. 6 An Ephipparchie] As it were a command over two Hipparchies, or over 1024 borles.

A Telos] The name of Telos is given both to a body of horse, and to a body of foote. A Merarchie was called by some Telos (Saith Elian before) and conteined 2048 armed. The Telos of horse conteineth 2048 horse. So the bodies are egzall in number. The word sometimes significth a Command, or Dignitie, from which signification this body, as feemeth, bath the name.

8 Epitagma | The whole body of light-armed was called an Epitagma , which name is given likewise to the whole body of horse comprizing 4096 horse. It maybe they we both so called because they are placed behind the Armed, as I noted before. For that place Elian assignetb unto them.

The diligence to be veed in choice, and exercise of the best formes of Battailes.

CHAP. XXI.

HE Inventions and conceits of those, that lived in old time, about Troopes of Horse are declared, in what forme every one was cast, and for what cause some vsed one forme, some another. Now it behoueth (as in things that carry with them great difference) not carelefly, and negligently, to rely your the bare precepts; but rather by daily exercise to make tryal of every kinde of figure, and so attayning to the perfect knowledge of that, which is readiest, and of most advantage, to admit and receive it in true fight. For it were great simplicitie confidering in matters of leffe importance men by curious inquiry reach to the exact finding out of many things, herein not to ground vpon perfect and fure experience, before we come to joyne with the enemy.

Troopes may be inlarged or leffened, as it shall seeme convenient to him, that hath the command.

> Of Chariots; the names, and degrees of the Commanders.

THE XXII le st double sed of I dem

Sensor dering Charies and Elephans, albeit they are worne out of vie, yet to make up the measure of this discourse, I will remember their names, as to make vo the measure of this discourse, I will remember their names, as the safe fet downe in ancient writers. In the Art of ordering Chariots for the field they call two Chariots a Zygarchy, Two Zygarchies a 2 Zyzygi; Two Zyzygies an 3 Epyzyzygi; Two Epizyzygies an 4 Hartamarchy; Two Hartamarchies a 5 wing; Two wines 26 Phalance.

A man may vie many and fundry Phalanges of Chariots, and yet retaine the fame names in every Phalange. Some have framed simple Chariots to serve withall; other some have armed them with Sithes prominent and standing out on each fide.

Herewere two kinde of Chariots vied of ancient time, the one a simple Chariot, the other a Charies armed with fiches. The first kinde was veed by the Heroes (as ther terme them, that is the renowned Souldiers of old, fuch as were Achilles, Hector, Cycnus, Eneas, Turnus) as appeareth by Homer, Virgil, Ovid, and other Poets. The last was brought in by the Generalls of later times, especially by those that raigned in m Liv. decad. Afia, and in Africa. For the " Europeans have counted them fruitlesse, and vaine 4 lb.7.142B. mockeries, and among It them you fall hardly finde any mention of Chariots. Elian toucheth them onely, because both they, and Elephants were in his time growne out of vie. Wherefore I meane likewife to paffe them oner fleightly, onely directing the Reader that is defirous to understand their manner of fight to places of Historie, where they are mentioned. And first fee for their

Forme.

Forme. Xenoph. Cyrop.lib.6.152. D.E.& 156.B.C. de exped. Cyr.lib.1.264 A.B.Liu.decad. 4lib.7.142. A. Diodor. Sicul. lib.17.596. Quin. Curt. lib.4119 & lib. 8. 371.

Their violence, Diod. Sicul. lib. 17. 593.

Their place in the battaile, Xenoph, Cyrop. lib. 6. 168, C. D. Liu. decad. 4. lib. 7. 141.A. Diod. Sicul. lib. 14.408.

Remedies against them, Diodor. Sicul.lib. 17. 592. 593. Xenoph. de exped. Cyr. lib.1.265. Liu.decad.4.142. Quint. Curt.lib.4.141, Plutarch. in Sylla.

I come to the names of the Commands of Chariots.

A Zygarchie The command of two Chariots; as it were a yoake of Chariots. A Syzygy | The command ouer two yoakes, as it were, of Charioss in yned together; that is ouer 4 Chariots.

An Epilyzygy | The command over four e yeakes of Chariots , that is over eiels Chariets.

4 An Harmatarchie | Properly the command of Chariots. But weld by Elian for the command of 16 Chariots.

A wing] As foote, fo Chariots, and Elephants , had their wings of battaile. To the wing went 32 Chariots. Yet finde I this order of imbattailing Chariots no where but in Elian. He that will, let him read the places, that I have noted before, for the orderine of Chariots. Notwithstanding I can not doubt, that the names given here by Ælian, are taken out of ancient writers.

A Phalange] It confifteth of 64 Chariots ; and wee here fee, that Ghariots also bad their Phalanges, as well as foote, and Horfe.

> Of Elephants; the names, and degrees of their Commanders.

CHAP. XXIII.

Outhing Elephanes, he that is Commander of one Elephane is called Zoarcha; Oftwo Therarcha, and the body a Therarchy; Of foure 3 Epitherarcha, and the body an Epitherarchy; Of eight 4 Ilarcha, and the body an Harchy; Of 16 5 Ebphantarcha and the body an Elephantarchy; Of 32 & Keratarche, and the body a Keratarchy. That which confifteth of 64 wee call a 2 Phalange of Elephants, as if a man should name the Commander of both the wings Phalongarcha.

He vse of Elephants was greater among st the people of Asia and Africa. These of Europe effected them not much. And yet we finde, that they were brought into the field by the Romans also : who first faw Elephants in Italy in the warres, they had against King Pyrthus. * The Indian Elephant was preferred before the African for greatneffe d Lindocal a. of body, strength, and courage. Many things are written concerning the fernice of He- 100.7. 141. phants. But because Alian toucheth no more, then the names of the bodies, and thede- 415.CD. grees of Commanders, 1 will only note such things, as I finde concerning them in Histories. Their kinde of armor, and furniture I have taken out of Liny, and expressed them as neere as I could in figure.

The Tacticks

For their power, frength, and manner of fight, see Diodor. Sicul. lib. 17. Cog. & lib. 19. 717. Polyb. lib. 1.55. D. & lib. 5.425. C.

Their place in battaile, Diodor. Sicul.lib. 17.685. Arrian. lib. 5.111. Liu. decad. 4. lib. 7.141. B. Appian. in Syriac. 107. Polyb.l. 1.34. D.

The distance one from an other. Arrian.lib.5.111.

Light armed in the distances betwixt Elephant and Elephant, Diodor. Sicul. lib. 17. 609. & lib. 18.665. & lib 19.685. & 716. Plurarch. in Pyrrho.

- Remedies against Elephants, Diodor. Sicul.lib. 18.665. & lib. 19.717. Polyb.l. 1.

42. A. Hirt. de bell. African. 416. Liu.decad. 3. lib. 7.194. C.

Ibaue noted before the improprietie of names given to militarie bodies as well in the armed and she light armed foste, as in hor fe troupes, and in Chariots. That defeit we lesse in the commanders and commands of them having names, which were as first large, and improper enough, but afterward made good by we, and received by the Tackicks as significant to express the mings, for which they were innented. The first is given to him that it to command one Elephant. Who is called

1 Zoarchos] The Commander of a living creature, that is of one Elephant. The next is

2 Therarchos] A Commander of Beafts: which name is appropriated to him, that commandes bewo Elephants, and the body it selfe is named a Therarchie.

3 An Epitherarcha] Having the authoritie over the Therarchie and the body is called an Epitherarchie comprizing four Elephants.

4 An Ilarch] As it were the Commander of a troupe; and the body is called an Ilarchie. He is commonly applied to borfe, and fignificith a borfe troupe, and Ilarcha the Captaine. But here Ilarcha significith the Commander of 8 Elephanis.

An Elephantatch] A Commander of Elephants, as though the other bodies before mentioned were not of Elephants. Such straights are men often times driven unto in densiting new names for new things, which ustwithstanding passe afterward and growe families by use. Elephantarcha commandes 16 Elephants, and the command is called

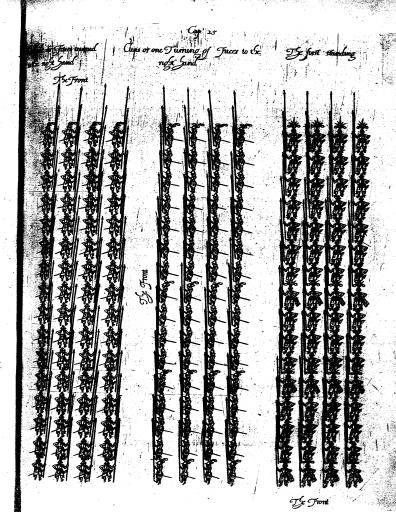
on Elephantarchie. 6 A Keratarch] The Commander of a wing, the body a Keratarchie, having in it 32 Elephans. A wing of Chariots had as many.

7 A Phalange] This is the greatest body and consistent of 64 Elephants. But as Chariots may be ordered into many Phalanges, and yet the same names retained in energy one of the Phalanges, so it is in Elephants. For that armies have bed in them at once a c Polyb. lib. 1. bone 64 Elephants appeareth by Histories. Polybius, and Diodor Sicul: testifie, c the signifiest of the state of the other 130 Elephants in their armies. The same polybius saith that Ptolomey e Polyb. lib. 5. bad against Antiochus 73 Elephants in the armie, and Antiochus 102. And Plutarch 11. The state of the state of

The names of military motions expressed in this booke.

CHAP. XXIV.

T Henhaue we fet downe in particular the kindes of perfect Forces together with the feuerall names of euery body; Which being premifed, it feemen fit.



fit to deliuer the words of exercise, that when the Commander, shall will any thing to be done, the Souldier in daily experience acquainted before with the fignification of euery of them, and with the mooning in each figure may easily performe and execute, whatsoener is commanded.

There is a motion called Clift whereof one kinde is to the Pike, the other to the Target; Another is called Metabole; another Epiftophe; another Langitrophe; another Epifloffone; another Epifloffone; of leis to ranke; to return to the first possible countermatch; to double. Likewise we viet the words induction; and Deduction to the right, or less thand; a broad Phalange; a deepephalange; and armount fromted Phalange; and processes; and Processes; and Epitaxis, and Epitaxis. The signification of which words! I will story deliver. And yet I am not ignorant; that the precepts of warre are not by all Tatiticks expressed in the same tearmes.

Notes.

A Elian in the Chapters precedent, hath numbred up all kindes of forces, as well foote, as Horje, and Chariots, and Elephants, that in ancient time were accounted them them them their armor, and furniture, and diffinguished them time omilitarie bodies, and imbattailed them, and taught the diffunces, thous they negle to hold in fight. It followeith now that he freake of motions military; which are the life of an armie, and analy give means of victories and without which all preparation of forces is witne, and analyte means of wife free sand without which all preparation of forces is witne, and analyte hoshing in the field, nor to the end, for which they were leuied. This chapter then consciented the names of those motions; see following Chapters the particular explication of them. To which we will note, what we finded an account writers. For the lignification of the words, treferre them to the scarcal Chapters, where they are expounded.

Of turning, and double turning the Souldiers faces, as they stand embattasled.

CHAP. XXV.

Lists or turning of the face, is the particular motion of enery Souldier dedining his face either to his Pick, that is to the right hand, or to his Target, that is to the left hand. The vice of it is, when the enemine sheweth himselfe in flanke to encompasse our winges, or else to charge vs: or for some other cause, whereof I will speake in convenient place. 3 Two turnings of the face towardes the same side transferre the sight of the Souldier to the reare of the battaile. And this kinde of motion is called Metabole: being also vice either to the Pick, or to the Target. In the first standing the mouning of the Souldiers face toward the Pike is called Cliss, the second mouing the same way Metabole. For Metabole is the conversion of every mans face particularly to the place, which was behinde his backe. And the same that Metabole is in ech several Souldier, the same is Perispasso, or wheeling about in the whole battaile. There are *two kinds of Metabole, theone from the enemie, the other to the enemie. Metabole is defined to be a changing of every mans face in particular from the front to the reare: or contrariwife. Turning about from the enemie is, when the Souldier turneth his face twice towards the Pike; To the enemy, when hee turneth twice towards the Target.

Notes.

Oure kinde of Motions are fet downe by Alian whereby wpon any occasion the batraile may be somewhat changed: Turning of faces, countermarch, wheeling and doubling whereof the first may be veed, in what order foeuer your battaile standeth the fecond onely in open order, the third in close order only, the fourth either in close, or o. pen order. Clifis, or turning of faces, whereof this Chapter intreateth, albeit it may bee brought in allo in open Order , Tet is it not don for the most part but in close order ; and then especially, when none of the other motions have place. The Gracians alwaies coneted to bring their file Leaders, that is their best men , to fight. in open Order ther chose to countermarch; In close Order, having place, to wheele their battaile about, and so turne the face of it against the enemy. If they could doc neither of these, they came to the last remedy, which was turning of faces of every particular manin the battaile.

Clifis, or turning of faces | This motion is of leffe paines then any other, but of no lesse importance, or necessitie. In the rest the Phalange changeth the place, or the forme: In this it holdeth both, and yet is ready for any attempt of the enemy. Onely every Souldier in particular turneth bis countenance to the right or left hand, as he is commanded. To turne his face to the Pike is to turne to the right hand, because that hand bore the pike, to turne to the Target is to turne to the left hand; because the Macedonians caried their targets on their left (boulder. For the wfe of this turning of Faces, Ælian (aith, It hath place when the enemie sheweth himselfe in flanke

To incompasse, our wings | Clifis is no more, then bearing faces to the right, or left hand, that is to our wings. When then we finde our enemies, to incompasse our right wing, wee turne our faces, and weapons that way to receive him : to the left, when he com. meth to charge vs on that fide. If on both fides, then turne wee the faces of our Phalange balfe to the right , halfe to the left band ; which is the Antistomus Phalange whereof Ælian speaketh hereaster. Briefely, there is almost none of the marching Phalanges which are afterward discribed, but it hath neede of this motion. Besides if woon any occasion the Phalange be to move from any of the flanks, you are only to command Turning a Polyen,lib.4 of faces to that flanke, and then to lead on. I will give an example, or two. Alexander at Arbela having imbattailed his armie to fight with Darius, had intelligence, that Darius had ftrowed the ground betwixt the two armies with Calthropes. He commanded therefore the right wing, which himselfe led, to turne faces to the right hand, and follow him, to the end to go round about, and avoide the places, that

\$ 17.

quickly betwixt the spaces, put Darine to flight. If Alexander had marched on with the right front , he had fallen woon the Calthropes. To avoid them, be veel the benefit of this motion, and turning faces to the right hand he led on , watill hee badpaffed the danger, and then turning againe to the first posture, went to charge, and defeated the enemie. b Polyblib it. An other example is in Polybius, who describing the battaile betwixt Machanidas the Lacedemonian Tyrant, and Philopoemen the Achaan Generall, telleth, that Machanidas having in the left wing put the Achaan mercenaries to flight, followed hard the chafe. Philopamen as long, as there was hope, indenoured by all meanes to flay his men: when he faw them vtterly defeated, hee hasted to the

were fowed with Calthropes. Darius marching against him to the left hand, dif-

ioyned his troupes of horse, and Alexander taking the advantage, and giving in

right wing, and perceiving the enemie buffe in chafe, and the place voide, where the fight had beene, commanding the first Merarchies to turne their faces to the right hand, hee led them on with high speede, not yet breaking the order of their imbattailing. And quickly leazing vponthe for faken ground, hee both cur bewist them, that gaue chase, and home, and withall got the advantage of the vpper ground against the left wing of the armed. Whereby hee obteined the victory. If Philopoemen had in this action veed wheeling of his battatle, which onely was the other motion, which would have ferued his turne, befides the troublefomeneffe of the winding about, he should have beene forced to have vsed two wheelings, and so failed of the elerity, which was at that time requifite. Faces were turned in a trice, and hemsde himselfe Master of the ground, bee destred, before hee could have wheeled once his battaile.

Two turnings of the Souldiers face] Cliffs, or turning faces to the right, or lefthand, consisteth of one turning and moueth no further, then the side. If the motion betothereare, it hash two turnings, and is called Metabole, which is defined to bee a changing of every mans face in particular from the front to the reare, or contrariwise. And as wheeling of the whole body carreth about the fronts of the battaile to the reare; So doth Metabole turne the face of every particular Souldier, and maketh him looke from the front to there are. The word properly fignifieth a change, which happeneth herein, when the fouldiers are changed from the front to the reare, or contrariwife. The we of Metabole's principally to resist the enemy that gives on upon the reare. 2 So Pyr-aPlucin Pyrth. thus being entred the Citie Argos with a few, and overpressed with multitude, retired bylittle and little, and defended himselfe, often turning his and his souldiers faces against theenemy. b So the armie of Cyrus the elder retiring from the walles of Babylon, exemplicy-often turned about their faces to the left hand, and waited their enemie, who the the their faces to the left hand, and waited their enemie, who they take the transfer of the transfer who they take the transfer who they take the transfer of th often turned about their faces to the left hand, and waited their enemie, who D. were reported to be on foote, and ready to come and charge them. And if the enemy all ault both the front, and reare, it hath beene the manner to continue halfe the souldiers in each file with their faces to the front, and command the other halfe to turne their faces to the reare against the enemie behind. And this forme is called Phalanx Amphistomos discribed by Alian cap. 38. And sometimes it is weed to speed our march, and preuent the enemie, as was said before of Clisis. Agesilaus made an incursion into b Polyenlib.in the Territory of the Thebans, and finding a Trench, and Ramper cast up by the Agefia. Thebanes for defence of their Countrey, and onely two narrow waies betwixt, he cast his armie into a hollow Plinthium, or square, and led it against the left hand paffage, whither all the Thebans flocked for defence. But heeturning about faces from the reare, hasted away, and gained the other passage, where no man was

present to resist, and entring spoiled the Countrey; and returned without impeachment. 4 There are two kinde of Metaboles] Before were rehearfed two kinde of turnings of faces about, one to the pike, the other to the target, here is added to o more, one from the enemy and the other against the enemie; which are all one indeed, and differ onely in name. What the true meaning of these turnings should be, I am in doubt, Elian expounding them one way, Suidas another. Elian esteemes them by the right, and left hand, Suidas, albeit he have that fignification also, esteemeth them by the front and reare. The efore Suidas defines the turning from the enemie to bee a turning about, toward the reare : that against the enemie, a turning about toward the front. Ælian would have the first to containe two turnings toward the right hand, the second two turnings toward the left. I for my part affent rather to Alian. For toucling the turnings of Suidas, I cannot yet understand, why turning toward the reare should be a turning from the enemie; Or toward the front a turning to the enemie: Considering that

of Elian.

whether some you turne faces, the enemie is imagined to be there; faces and weapons being to bee opposed alwaies against the enimie, which is the onely end of turning. Alians opinion | eemeth to have more probability in it, at least if I conceive the right reason. For I take it thus: That feeing the Græcians (as the Romans likewife) were Targetieres, and caried their targets on their left side, and in fight advanced that side alwaies neerest the enemie, which they (ought to couer with their targets, that therefore the turning about to the enemy, was called turning to the Target; as contrarily turning to the right fide, on which lide the Pike was caried, and which being naked of Juch defensive armes was called a Latus apertu * the open fide, and therefore further removed from the enemy, might for the same cause be tearmed turning from the enemy. So that I take turning about to the enemy, and turning about to the target to be all one, as also turning about from the enemy, and turning about to the Pike, how soeuer the name differ. This is my coniecture, which I fall imagine to be true, till I finde some man, that will bee pleased to give me a more probable reafon : I only adde now the words of command in this motion.

Faces to the right hand. Faces to the left hand. Faces about, to the right or left hand. The figure sheweth the manner.

Of wheeling, double, and treble-wheeling of the battaile, and returning to the first posture.

CHAP. XXVI.

Piftrophe (or wheeling) is when the battaile being fo closed, that no man Can turne, or twice turne his face by reason of the neerenesse of man to man, it wholy, and iointly wheeleth (as a ship, or some other body caried about) the order thereof remaining undiffolued. When the wheeling is to the Pike, we warne the right-corner-file-leader to fland fill (as it were the hooke of a doore hinge) and the rest of the battaile proceeding forward to turne about the same file-Leader like the doore. In the same manner is wheeling to the Target ; It may be thus defined : Epistrophe is, when shutting the battaile by gathering close the Followers, and Side men, we turne it wholy (as the body of a man) toward the Pike, or Target, it being caried about the corner-file-leader, as about a Center, and, changing the place of the front, transferre the countenance of the fouldier to the right, or left hand; the followers and fidemen enery one remayning in file and ranke as before. How it is to be done I will shew hereafter.

Anastrophe, or returning to the first posture, is the restoring of the wheeling to the place, where the battaile first stood close, before it beganne to wheele. Perispasmes, or wheeling about, is the motion of the battaile in two wheelings, so that thereby the front commeth to the place of the reare. 2 Esperifica mos, or treble wheeling, is the motion of the battaile in three wheelings, fo as, when it turneth to the Pike, the front commeth about to the left flanke; when to the Target, it commeth about to the right flanke.

Notes.

His Chapter hath a diners kinde of turning from the other mentioned in the last Chapter, which for distinction sake, is called Epistrophe, or wheeling. The other turned no more, then the fouldiers faces, enery man yet keeping the same ground; behadbefore. This wheeles the whole body, and changeth the place of the Phalange either to the right, or left band, or to the reare. And as there was in the turning of tages aparticular motion of every particular fouldier to the right, or left hand, called Chis, and an other turning about called Metabole : so is there in this a generall wheeling of the whole body to the right, or left hand, called Epiftrophe, and an other wheeling about to the

reare called Perispasmos. But let vs heare the description.

Epistrophe (or wheeling) is, when the Battaile] Shortly Epistrophe is no more, then the first turning of the battaile to the right or left hand. In doing whereof first the files must be closed to the hand, you meane to wheele, then the rankes. Then the corner file-Leader on the same hand is to stand still then all the rest keeping their files, and rankes closed, to surne to the same hand wintly about the Corner-file-leader circle-wife, who is to mone by little, and little, till he have turned his face to that fide, which was intended. And when the first ranke is even with him, and the rest wheeled enough to the Same hand, they are to stand still: The words of the definition of Epistrophe (or whieling) arcplaine enough in Alian; Incede veno exposition. Now because in exercise we relie not upon one forme of motion alone, but acquaint our souldiers with all the kindes; It is necessarie to bring the body againe to the first place, to the end we may proceede in the rest. This reducing to the first Posture is called Anastrophe, by which the battaile returneth, but by a contrary hand, to that, to which the Epistrophe was made. And but for changing the hand the wheeling backe againe is all one with the wheeling forward. Wee shall see hereaster how it is done. To bring the battaile to have the front, where the reare was, you must wie a double wheeling. And that is called Perispasmos. Which commeth of two Epistrophes, and is made either to the right, or left hand. Onely it must bee obferued, that if the Perispalinos (or wheeling about) be to the right hand, the Anastropac (or reducing to the first posture) must be to the left. Contrarie it is if the Perispasmos were to the right hand.

2 Ecperispasmos I lould neuer hitherto conceiue any vie of atrebie wheeing (for So Alian takes the word) un'esse a Perispasinos were first made, and the battaile had the front already brought to the reare, and (o an Epistrophe added from the reare to the Same hand. Otherwise seeing that one wheeling is sooner made, then two, and therefore Sooner then three, I fee no neede of three wheelings, effecially feeing we may doe that, wee defire with one. For example, let vs wheele our battaile shrice to the right hand, the front will come to be in the place of the left flinke. The same will be persormed as well wish one wh eling to the left hand. Et frustra fit per plura, quod potest fieri per pauciora, especially in matter of warre, where the least moment of time often carrieth the whole bufinesse. The like may be faid of Ecperispasmos to the left hand.

The vee of the motions of wheeling, and double wheeling, is, when the battaile bing closed, and the en my comming to affault you in any other one place, then the front , you Seeke to bring the best men to fight. For if you be to be charged in two places at once, or more, wheeling helpes little; except it be to turne the front to one enemy, and in that cafe your onely shift is, to turne faces against them, that come to charge, on what side soeuer they come. Examples of thefetwo motions, I meane Epistrophe, and Perispasmos meete Ws almost in every Greeke Historie. Of which I will represent one, or two, especially of the

aPlut.in Pyrth. latter; the rather because practife giveth both light, and life to precepts. a Plutarch recounterb, that after King Pyrrhus, had in vaine affaulted Sparta, he was invited by an Arguan named Ariflam to receive Argos into his protection, and that hee marched thitherward with his armie. Arieus the king of Lacedemonia laying ambushes for him, and taking the principall streights, by which he was to passe, charged his reare, wherein the Galatians and Molossians were. When Pyrrhus heard the bruite and noise, he sent his some Ptolomy with the band of Companions to aide.himselfe with all speede marching out of the streights, led on his armie. The medly being sharpe about Ptolomy, and the chosen Lacedemonians commanded by Eualeus standing close to their busines, Oroelus a Candiot of Aptera, valiant of his hands, and swift of toote, running croffe against the young Prince gaue him a deadly stroke and ouerthrew him. His fall made the rest to flie. And the Lacedemonians having the victorie, and following the chase came into the Champian ground ftill killing but not remembring they were not followed with armedfoot. Vpon whom Pyrrhus, having even then heard of, and being much mooved with the death of his sonne, wheeled about the Molossian horsemen. And himselfe first advancing vpon the spurre imbrued himselfe with the slaughter of Lacedemonians. He alwaies seemed mighty, and terrible in armes; but then he exceeded himselfe in daring and valor. For turning his Hosse vpon Engless who shunning him. shifted aside, and with all strooke at his bridle hand as he passed by, and wanted but little of cutting it off. But miffing the hand, he light vpon the raines, and carned them quite a funder. Pyrhus with all strooke him thorough the body with his Launce. Then leaping from his horse, and fighting a foote, hee cut in pieces the chosen Lacedemonians, that fought to recouer the body of Eualeus. This was the fight that Pyrrhus made by wheeling about his Horsemen against the Lacedemonians, that followed vpon his Reare. Another example of Wheeling about is reported by Polybius, and it is of Amilear Annibals father, this is the hiftory. The mercenary fouldiers of the Carthaginians revolted from them, and overthrew some of their Generalls, and shut them vp within the Citie of Carthage, possessing both other streights, that led into the Countrey, and also a bridge laide ouer a river called Macar, which river was not passable, but by that Bridge. Befides, they built a City for defence of that Bridge. Amilear feeking to diflodge the enemie from that Bridge, and having no way to come at them conveniently; observed, that when certaine windes blew, the mouth of the river toward the sea was commonly filled vp with fand, and would give passage sufficient for his armie. Finding then a fit time, hee put ouer his army in the night, and before day, or ere any man knew of it, made himselfe Master of the passage; and prefently led against them, that held the bridge. Spendius (hee was one of the chiefe Rebells) hearing thereof, advanced to meete Amilear in the plaine, and both ten thousand from the City at the bridge foote, and fifteen thousand more from Viica, came out one to aide another, thinking to wrappe in the Carthaginians betweene them; who were not aboue ten thousand Souldiers of all forts, and 70 Elephants. Amilear led on his armie. Before were the Elephants, the horse, and light armed followed next, the armed foote came last. And perceiuing the enemie, that followed his Reare, pressed hard vpon him, he commanded his whole armie to turne about. Those that were in the Vangard of the march hee willed to returne to him with speede; the other, that at first had the reare, hee wheeled about, and straight opposed against the enemy. The Libians and mercenaries imagining the Carthaginians fled for feare, fell voon them disorderly, and boldly came

of Ælian.

to hands. But when they faw the Horsemen, being now turned about, and come vp neere to the foote, and already put in order, make a ft and, they themfelues, by reason they looked for nothing lesse, fell into a feare, turning their backes fled prefently, as before they gaue on viaduifedly, and straglingly. And some of them falling vpon their owne people, that were comming on wrought both theirs, and their owne destructions : othersome were trampled vpon, and trode to death, by the horse, and Elephants, that followed the chase. Thus fare Polybius. And shu farre of Wheelings. The figure, and words of command are refernedfor the 32 Chapter, where the manner of wheelings, and returning to the first

> Of filing, ranking, and restoring to the first posture.

CHAP. XXVII.

O file is, when every particular man keeping equal distance from other I standeth in his owne file lineally betwirt the file-Leader and bringer-vp. To ranke is, to be in a right line euen with his fidemen in the length of the battaile. To restore to the first posture is, to bring the fight of the Souldier to the same aspect, he had before the first turning. As if his face were at first towardes the enemy, being commanded to turne towards the Pike, and thence to returne to his first posture, hee is againe to returne his face toward the enemy.

Notes

F filing, and ranking enough is (poken before. To restore to the first posture | This motion differesh from Anastrophe before specified. For Anastrophe bringeth backe agains the whole body to the first place after all hieling: This the Souldiers faces particularly to the first aspect. So that this is Wed after the making of an Anastrophe. For aiwaies in motions it is requisite, that the Souldiers faces moue forward. To mone backeward hath many inconveniences of stumblings upon uneuen ground, or stones, or pittes, or stubbes, or such like. Which is the cause that in Anastrophe after aWheeling, Elian willeth, that the Souldiers turne their faces the contrarie way first, then moue on, till they have recovered their first ground, then open rankes, and files, and lastly to restore to the first aspect. And as it differeth from Anastrophe so differeth it likewise from Metabole. Metabole only turned faces about, this setteth the Souldier in his former posture, not onely for his face, but for his armes, also, which are ordered as at first. The wordes wherein this motion is expressedby Ælian are Eporthon apodounai, and Eis orthon apocatastesai, which is interpreted by Gaza in arrectum reddere, to restore up right, by Arcerius rectum reddere torestore right, and so the words sound. Alian interpreteth it to set againe the Soulaiers light in the same aspect in which it stood at first : as if being placed with his face egainst the enemy he be commanded to turne his face to the Pike, and then againe to restore his face to his sirst possure, he must returne, and set his face against the enemy. Alian therefore referrethis to the fight he first had, which if it bee the right meaning, how can it

a Paulan, in Articis 42. b Paufan, in Corinth 80. c Paulan in Corinth. 87.

be woright, or right, more in that , then in any other posture. For the Souldier not onely in front but in flanke, and in the reare carrieth him cle vprieht, or right, I doubt not but this it may be applied to the vpright flanding of men, as appeareth by fundry places of Paulanias : Who reber feth, that Mineruas Image fet a in the Temple Parthenion standeth veright, orthon esti, and in an other place, that in Corinth b in the Temple Pantiteon, there were two Images of Mercurie standing upright, Otha, and that in the Temple of Fortune the image of Fortune was carued of Parian-flone, and flood voricht. Orthon: and that in Neptunes I emple fituate in the Corinthian Ishmus. the images of Amphitrite and Neptune fland in a Chariot, and the boy Palemon voright upon a Dolphin, Orthos. In all which places Orthos designeth the fite of men. But here, as Itake, it cannot be so applied. Because in every motion, not onely in this, the men fland voright. How then can they bereft ored to their flanding voright, when they docit already. Itake the original of the appellation to come from another cause, and that is from the ordering of the Pike. For when the battaile is first set in the field, every Souldier standes with his Pike ordered, that is vpright. For to order a pike is to let the butt end on the ground before the Souldier Comewhat wide of his right foote, and to hold it upright with the right hand borne even with the (houlder. But when you beginne, or continue any motion, the manner is to advance, or to shoulder the Pike. and loto proceede. But being commanded to returne to the first posture, it must bee ordered againe. So that the first posture of an armed min is to stand with his pike vpright. And after many motions and windings, he at last returneth to the same posture. which I take the command of Ep'orthon apodounal to lignifie. Now that I may not feeme to relie upon a probable consecture alone, I will bring witneffe for the confirmation d Died. Sicul. of my opinion. It is reported by Diodorus Siculus, that Agefilaus the Lacedelib. 15. 473. monian King with an armie of eighteen thousand foote, and fifteen hundred horse, inuaded Baotia. The Athenians before hearing of Agesilans comming had fent flue thousand foote, and 200 horse to aide the Thebans, who gathering their armie together seized vpon a long narrow hill distant 20 furlongs from the City; And making the hard accesse to the place a kinde of fortification against the enemie, they there waited his comming, fearing to hazard vpon euen ground in regard of the renowne, and glory of Agesilaus. Agesilaus, having imbattailed his troupes, led them against the Bastians; and approching neere, sent his light armed to found their disposition to fight, which being easily repulsed by the Thebans by the aduan age of the higher ground, hee aduanced the reft of his forces being imbattailed in fuch manner, as might give greatest terror. Chabrias the Athenian willed his Souldiers to awaite the enemy contemptuoufly both keeping their first array, and their Targets at their knees, and continuing their Pikes opright ordered; who when they jointly as voon a word given, did as they were commanded. Agefilaus both wondering at the good order, and at the affured fashion of the enemy thought it not fit to firiue with vnequall ground, and by forcing them to fight, to compell them to be valiant, whether they would, or no. Hitherto Diodor Sicul. of the Strategem of Chabrias against Agesilaus, which consisted in the contempt of Agefilaus, and all bis forces : First in not thirring one foote, to meete the enemy, then in keeping the array they held before : further in fincking their Targets to their knees; Laftly in continuing the former order of their Pikes, that is not making readyte charge, but remain ng with their Pikes ordered, as they were at firft. Age-Ilaus advancing his armie thought to firike a feare into his enemie; Chabrias trusting to the firength of the place, scorned the Brauado of Agesilaus, conceining, he would not be fo hardy to admenture the fight woon fo great an inequality of ground. He therfore willeth the

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be upright, or right, more in that , then many other posture. For the Souldier not onely in front, but in flanke, and in the recore carrieth himselfe upright, or right. I doubt not, but that it may be applied to the woright flanding of men, as appeareth by fundry places of Paulanias : Whoreherfeth, that Mineruas Image fet a in the Temple Parthenion flandeth upright, orthon efti, and in an other place, that in Corinth in the Temple Pantheon, there were two Images of Mercurie standing upright, Ortha, and that inthe Temple of Fortune the image of Fortune was carued of Parian-frome, and flood apright; Orthon: and that in Neptunes I emple fituate in the Corinthian Ishmus, the images of Amphitrite and Neptune stand in a Chariot, and the boy Palemon vpright upon a Dolphin, Orthos. In all which places Orthos designeth the fite of men. But here, as Itake, it cannot be so applied. Because in every motion, not onely in this, the men fland vpright. How then canthey bereft ored to their flanding vpright, when ther doe it already. Itake the originall of the appellation to come from another cause, and that is from the ordering of the Pike. For when the batsaile is first set in the field, euery Souldier standes with his Pike ordered, that is vpright. For to order a pike is to (et the butt end on the ground before the Souldier fomewhat wide of his right foote, and to hold it upright with the right hand borne even with the shoulder. But when you beginne, or continue any motion, the manner is to advance, or to shoulder the Pike, and (sto proceede. But being commanded to returne to the first posture, it must bee ordered againe. So that the first posture of an armed min is to stand with his pike vpright. And after many motions and windings, he at last returneth to the same posture, which I take the command of Ep'orthon apodounai to lignifie. Now that I may not feeme to relie upon a probable consecture alone, I will bring witneffe for the confirmation Died. Sicul. of my opinion. It is reported by Diodorus Siculus, that Agesilaus the Lacedemonian King with an armie of eighteen thousand soote, and sifteen hundred horse, inuaded Baotia. The Athenians before hearing of Agesilans comming had fent fine thousand foote, and 200 horse to aide the Thebans, who gathering their armie together feized vpon a long narrow hill diftant 20 furlongs from the City; And making the hard accesse to the place a kinde of fortification against the enemie, they there waited his comming, fearing to hazard vpon euen ground in regard of therenowne, and glory of Agesilam. Agesilam, having imbattailed his troupes, led them against the Bastians, and approching neere, sent his light armed to found their disposition to fight, which being easily repulsed by the Thebans by the aduancage of the higher ground, hee aduanced the reft of his forces being imbattailed in fuch manner, as might gine greatest terror. Chabrias the Athenian willed his Souldiers to awaite the enemy contemptuoufly both keeping their first array, and their Targets at their knees, and continuing their Pikes upright ordered; who when they jointly as voon a word given, did as they were commanded, Agefilaus both wondering at the good order, and at the assured fashion of the enemy thought it not fit to friue with vnequall ground, and by forcing them to fight, to compell them to be valiant, whether they would, or no. Hitherto Diodor Sicul. of the Strategem of Chabrias against Agelilaus, which consisted in the contempt of Agefilaus, and all bis forces : First in not firring one foote, to meete the enemy, then in keeping the array they held before ; further in fincking their Targets to their knees; Laftly in continuing the former order of their Pikes, that is not making readyto charge, but remaining with their Pikes ordered, as they were at first. Agefilaus aduancing his armie thought to firike a feare into his enemie; Chabrias trusting to the firength of the place, formed the Brauado of Agefilaus, conceining, he would not be fo hardy to admenture the fight upon fo great an inequality of ground He therfore willeth the Cap 28 The Maiedonran Countermatre by file

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The Countermarche in action

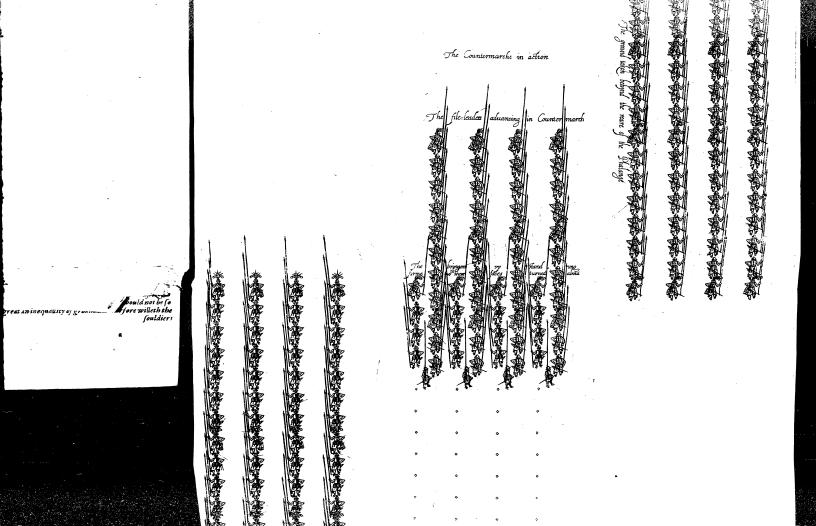
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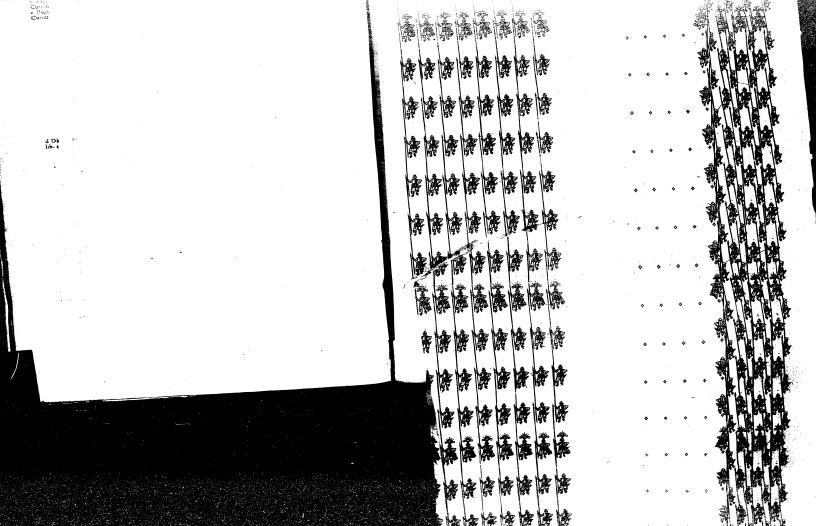
be images of Amphierite and Neptune fland in a Charlet, snathe boy Palemon voight upon a Dolphin, Orthos. In all which places Orthos designesh the fite of men. Sut here, as Itake, it cannot be so applied. Because in every motion, not onely in this, the men fland upright. How then can they bereflored to their flanding upright, whin they doe it already. Itake the original of the appellation to come from another cause, and that is from the ordering of the Pike. For when the battaile is first set in the field, eucry Souldier flandes with his Pike ordered, that is vpright. For to order a pike is to fet the butt end on the ground before the Souldier somewhat wide of his right foote, and to hold it upright with the right hand borne even with the shoulder. But when you beginne, or continue any motion, the manner is to aduance, or to shoulder the Pike, and foto proceede. But being commanded to returne to the first posture, it must bee The Countermarche in action ordered againe. So that the first posture of an armed min is to stand with his pike vpright. And after many motions and windings, he at last returneth to the same posture, which I take the command of Ep'orthon apodounai to lignifie. Now that I may not feeme to relie upon a probable consetture alone, I will bring witnesse for the confirma ion of my opinion. It is reported by 4 Diodorus Siculus , that Agesilaus the Lacedemonian King with an armie of eighteen thouland foote, and fifteen hundred horse, invaded Bestia. The Athenians before hearing of Agesilans comming had fent five thousand foote, and 200 horse to aide the Thebans, who gathering their armie together seized vpon a long narrow hill distant 20 furlongs from the City; And making the hard accesse to the place a kinde of fortification against the enemie, they there waited his comming, fearing to hazard vpon euen ground in regard of the renowne, and glory of Agestlam. Agestlam, haning imbattailed his troupes, led them against the Bæstians; and approching neere, sent his light armed to found their disposition to fight, which being easily repulsed by the Thebans by theaduanage of the higher ground, hee advanced the reft of his forces being imbattailed in fuch manner, as might giue greatest terror. Chabrias the Athenian willed his Souldiers to awaite the enemy contemptuously both keeping their first array, and their Targets at their knees, and continuing their Pikes upright or-The front after Countermarche dered; who when they jointly as voon a word given, did as they were commanded, Agefilam both wondering at the good order, and at the affured fashion of the enemy thought it not fit to firiue with vnequall ground, and by forcing them to fight, to compell them to be valiant, whether they would, or no. Hutherto Diodor Sicul. of the Strategem of Chabrias against Agefilaus, which consisted in the contempt of Agelilaus, and all bis forces : First in not ftirring one foote, to meete the enemy, then in keeping the array they held before; further in fincking their Targets to their knees; Lafty in continuing the former order of their Pikes, that is not making ready to charge, but remaining with their Pikes ordered, as they were at first. Agefilaus advancing his armie thought to strike a feare into his enemie; Chabrias trusting to the firength of the place, scorned the Brauado of Agesilaus, conceining, he would not be fo hardy to admenture the fight upon fo great an inequality of ground. He therfore willeth the

Front after Countermarche The Countermarche in action [aduancing] in Counter bould not be fo fore willeth she fouldsers



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hardy to admenture the fight upon so great animous manner, -, &



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diers not to alter their posture, but to continue as they were. The words concerning the Pike are: En ortho to dorati menein. That is to continue their pikes vpright (En ortho) Now whether the Same be the possure, that the Tacticks describe, when they speake or restoring Ep' ortho, vpright, I referre to the sudgement of the Reader. * Po- b Polvenlib .. lianus remembring this Stratagem veeth Comerchas different words, and yet confenteth in Agelliao. in meaning. Chabrias faith he, commanded his Souldiers not to runne out againft the enemy, but quietly to ft and ftill holding their pikes before vpright, and their Targets before their knees which they were wont to doe, when they would a little ease themselues of the weight of their Targets. Where Diodore, bath en ortho to dorati menein, to continue their Pikes vpright. Polienus bath protinomenous ta dorata ortha, holding before them their Pikes vpright. But both have pikes vpright and Diodorus his Continue hath relation to the Posture they were in, which Chabrias would not have them to alter: Policius his hold before to that they were commanded to doe. In ordering of Pikes at this day I have showed, that the Souldiers hold them upright, the but end fet on the ground before, and somewhat wide of their right foot. * Æmilius Probus recitine this historie peruerteth the Stratagem: He faith that Cha. b Æmil. Prob. brias forbad the Phalange to give backe, and taught his Souldiers to receive the in Chabria. enemies charge kneeling with one knee, the other fet against the Targer, and with the Pike abased. Wherein hee quite dissenteth from Diodore, and Polien. Diodore (aith the command was to keepe their array; Polienus not to runne forward, but quietly to stand still; Probus not to give backe. Probus faith, they should kneele with one knee, and rest against the Target with the other; Diodore that they (hould hold their Targets funke to their knees; Polienus that they (hould carry their Targets before at their knees. Probus that they (hould abase, and charge their Pikes; Diodore that they (bould continue, and order them vpright; Polien that they should hold their Pikes vpright. So that Diodore and Polien agree, and expound one another : Æmilius Probus bringing in a new historie disfenteth, as I Said, from the other two : especially in making that to be a forme of fight prescribed by Chabrias (a simple forme to receive the charge open their knees) which was a contempt , to flew how little, especially in that strength of ground, be regarded Agesilaus; which contempt also made Agefilaus retire, not doubting but it proceeded from a great affurance of the enemy. Therfore as I faid I take these words ep' orthon apodounai not only to appertaine to the aspect of the Souldier, but also (and that much rather) to the erection , and ordering of Pikes.

Of Countermarches, and the divers kindes thereof, with the manner how they are to be made.

CHAP. XXVIII.

Here are two forts of Countermarches, one by file, the other by ranke; each of these againe is divided into three kindes. The first called the Macedonian: The fecond the Lacedonianian: The third the Chorsan, which is also the Persan; and the Cream.

1 The Macedonian is that, which leaving the ground, it first had, taketh in liew thereof the ground, which was before the front of the Phalinge, and turneth the aspect of the Souldier backward [where before in-was forward.]

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2 The Lacedemonian is that, which leaving likewise the ground it first had. taketh in steed thereof, the ground which was behinde the Reare of the Phalinge. and turneth also the face of the Souldier the contrary way.

3 The Persian is the Cretan, and Chorean : This keepeth the same ground of the Phalange, every fouldier taking another place for that, he had, the file-Leader the place of Bringer-vp, and so the rest in order; and turneth also the face of the

Souldier the contrary way.

4 Countermarches by ranke are made, when a man would transferre the winges into the place of the Sections; and the Sections into the place of the wings, to the end to strengthen the middest of the battaile. Likewise the right hand parts into the left hand parts, and the left hand parts into the right hand parts. They that feare to countermarch the Phalange in groffe the enemy being at hand, doe it by Syntagmaes.

I will now set downe, in what manner countermarches ought to be made.

The Micedonian countermarch by file is faid to be, when the file-leader turneth about his face, and all the rest with the Bringer-vp go against him on the right, or left hand, and passing on to the ground before the front of the Phalange place themselves in order one after an other, according as the file-Leader himselfe hath turned his face. Therefore it maketh shew to the enemy appearing in the Reare, of running away : Or it is when the file-Leader turneth about his face, and the rest passing by him on the right or left hand place themselues orderly one behinde

But the Lacedemonian is, when the Bringer-vp turneth his face about, and all the rest turning also their faces, and proceeding forward together with their file-Leader order themselues proportionably in the ground, which was behinde the Reare of the Phalange. Wherefore to the enemy appearing behinde, it makes a femblance of falling on. Againe the Lacedemonian is, when the file-Leader turning his face about to the Pike, or Target transferreth the whole file to another place equalite the first; and the rest following stand, as before, behinde him. Or elfe, when the Bringer-vp turneth his face about, and hee, that flood next before him, passing by on the right or left hand, is placed againe next before him, and the rest following are placed one before another in their former order till the file-Leader be the first.

The Chorasn is, when the file-Leader turning about toward the Pike, or Target, precedeth the file, and the rest follow, till the file-Leader have the place of the Bringer-vp, and the Bringer-vp the place of the file-Leader. And these are the Countermarches by file.

In the fame manner are Countermarches made by ranke in case a man would countermarch by ranke. For enery ranke Countermarching either keepeth the same ground, or changeth the right hand place, or else the lest hand place, of the

battaile, one of which must needes fall out, and neuer faileth.

Notes.

He two former motions are performed, one in close Order, the other in all Orders; Epistrophe when the bastaile is sout so close, that (as Ælian saith) a man can turne but face neither the one way, nor the other. Clifis in open Order, Order, and close Order. See Leo Cap.7. The swo following motions, Countermarch, and Doubling, one is done in open Order, the other for the most part in open order too; and yet sometimes in Order, and close order; as we shall see in due place. This Chapter handleth Countermarches, the next Doublings. Countermarch is a motion, whereby every fouldier marching after other, changeth his front for the reare, or one flancke for the other. For there are two kindes of Countermarches, one by file, and the other by ranke. And each of these is againe divided into three; the first called the Macedonian; the second, the Lacedemonian; the third the Chorwan, or Cretan. A Countermarch by file is, when every souldier followeth his Leader of the same file; By ranke, when every Souldier followeth his fideman of the same ranke in the Countermarch.

1 The Macedonian Countermarch] in this Countermarch, the purpose of the Commander is to turne the front of his battaile against the enemy that sheweth him selfe in the Reare; and withall to take the ground that lyeth before the front of the Phalange. It is called the Macedonian Countermarch (faith Ælian) because the Macedonians were the inventers of it. Which of the Macedonians he telleth not, but exclude th Philip, and Alexander, who both vied the Lacedemonian Countermarch. And before their times I have not read of any warlike Kings of Macedonia The manner of it is this; First all the File-leaders turne their faces about either to the right or left hand; then the next ranke passeth therough by them on the same hand; and being come to their distances, place themselves directly behind their File-leaders, and then turne about their faces the same way. Ana so the thirdranke after them, and the fourth, and all the rest, till the Bringers-up be last, and have taken the reare of the battaile againe, and turned about their faces. The figure expresseth not well the action. For in it the Bringers-up begin first to countermarch, which according to Elian should move last. Tet may this Countermarch be done, as the figure is. But I take Elians way to be easier, and readier. And it may be also, that the Countermarch expressed in the figure is lost in the text. For one of the Lacedemonian Countermarches, which proceedeth the comrary way, beginneth the motion with the File-leaders, as this doth with the Bringers-up, as wee shall straight see.

2 The Lacedemonian countermarch] In this Countermarch the proceeding is contrary to that of the former; that tooke the ground before the Phalange, this takes the ground after. In that the mouing was from the Reare to the front, in this from the front to the reare. This is the invention of the Lacedemonians. Ælian describeth it to be done in two manners: One, when the Bringers-up first turne about their faces, and the next See Leo cap.12. ranke likewile turning faces beginneth the Countermarch, and every man thereof placeth \$ 95. himselfe directly before his Bringer-up, and the third doe the like; and so the rest, till the ranke of the File-leaders come to be first: The other, when the File-leaders begin the Countermarch, and every one in their files follow them orderly. The figure expresses this last. Elian preferreth the Lacedemonian Countermarch before the Macedonian : because in it the souldiers seeme to fall on, and got to the charge; where in the Macedonian they Seeme to flie. There are notwithstanding times, when it is better to ve the Macedonian. As in case you meane to march on, and not to fight with the enemy, except you becompelled: Or elfe you feeke to gaine some ground of advantage. For the Macedonian contimueth fill the march, and stayeth not; the Lacedemonian returneth upon the enemy, and so looseth ground in marching. Agelilaus after victorie gotten ag linft the Argives, against whom he stood in the right winge, hearing that the Thebans had beaten the Orchomenians in the left winge, vied the Lacedemonian Countermarch against them. The words of x Xenophon found thus: Here the strangers were about to crowne x Xenoph bif. Agestlaus (thinking he had got the victory) when newes was brought that the grac. lib.4. Thebans, after they had broken the Orchomenians, had forced a pallage as farre as \$19.C. the baggage. Then Agefilaus, countermarching his Phalange; led against them.

The

græc ib. 6.

The Thebans perceiuing their Confederates were fied up to the mount Helicon, clofed their troupes together, as neare as they could, feeking to open a way by force. and to get up vnto them. Agefilians albeithe might by giving way to the formost haue followed them at heeles, and charged the reare, yet did he it not, but mer the Thebans front to front. Thus encountring, and clashing their Targets together they fought, thrust on, killed, and were killed. In fine some of the Thebans broke thorough to Helicon; other some, as they sought to escape, were left dead on the place. Agefilaus here followed the chafe upon the Argives toward the mount Helicon: The Thebans upon the Orchomenians the contrary way towards the enemies Campe. The Thebans leine their confederates fled to the mount Helicon returned toward them, Agefilaus countermarched to meete them, met them, and fought with them. For the Countermarch he wied, I make account it was the Lacedemonian, himfelfe being a Lacedemonian. And he wfed it to meet the Thebans branely in front. The fame Agefilaus, after he had by night incamped in a peece of ground behind Mantinga incompaffed about with mountaines, perceiving the next morning, that the Mantineans gathered together vpon the toppes, that lay right over the head of his Rearegard, determined to lead his Armie out of the place with all speed. Now if himfelfe should lead, he feared the enemy would give vpon his Reare. Therefore standing still, and turning his armes against the enemy, he commanded the last of the Phalange to march backe againe from the Reare, and come up to him; and fo at once he brought his Armie out of the streights, and made it by little, and little stronger. When the Phalange was thus doubled, he proceeded in that order into the Champeigne, & there againe reduced the depth of the armed foote to o or Io men in enery file. This place of Xenophon, if it be not corrupted, is very obscure. And I cannot tell whether to take it for doubling of the front, or the Macedonian countermarch. The words make for a doubling. For Xenophon faith plainely, the Phalange was doubled. Besides he addeth, it was made by little and little stronger: which could not be done with a Countermarch. And that a deepe Phalange, or Hearle, (Such as this by the evenings march, and the straights it entred, seemeth to be) is made stronger by doubling the front, there is no question. On the other side, the streights, thorough which it was to passe, perswade me, it sould be a Macedonian Countermarch. For in doubling the front the length still increaseth; & the manner is not to inlarge, but to extenuate the front, when an Armie is to be conveighed therough a narrow place. And Xenophon Saith expresty, that Agesilaus led it thorough the streights into the Champeigne in that order to which it was reduced last; & that in the Champion the depth of the Armed was lessened, and broughs to 9 or 10; for there Agesilaus imbastailed his Phalange to receive the enemy, if he would charge. And in a march through straight waies the front is commonly narrowed, and proportioned to the way; but in open ground the Phslange is againe brought to the suft length. So that it seemeth the depth was much, before it came into the plaine; because in the plaine it was brought to 9 or 10 men, and therefore no doubling. Lastly Agesilaus, (and the front I doubt not of the Phalange with him) turned face to the enemy, before the Rearecame up to him. which is done in no other motion than the Macedonian countermarch. In which all the File-leaders first turne about their faces toward the enemy, and then the whole battaile marcheth against the File-leaders, and placing themselues orderly behind them, turne their faces the same way, that they have done before. Now where it is in Xenophon, that Agefilaus having gained the Champeigne, extended his Armieto 9 or 10 Targeteres, I Suffect a fault to be in the number of 9; and that it ought to be read 8 or 10. To extend a Phalange is to draw it out in length. the length is the space betwint the point of both wings. When he saith he extended it to

10, the meaning is he drew it out so farre in length that he left but 10 in depth. Ten is the decas, whereof I spoke before, and I have likewise noted, that the Lacedemonians for the most part, made the depth of their battile 8. The number of 9, as all other wneuen numbers, was rejected by the Tacticks, as unfit for doublings. So that mine opinion is that Xenophon at the first wrote 8 or 10, not 9 or 10, how former 9 be crept into the place of 8. But to returne to Agesilaus, admit he vied doubling of ranks, or of the front in retiring out of the Mantingan Braights, yet give me leave to be of opinion, that the Macedonian Countermarch had beene the fittest motion for that purpofe. For himselfe being thereby cast in the reare, he had both prevented the charge of the enemie (which he feared) and yet wounde better out of the straights, the long Hetle, which still remained inthe Macedonian Countermarch, being more proportionable to iffue out of a narrow place, then a broad-fronted Phalange, which arifeth out of doubling the

The Persian is the Cretan or Chorwan] This Countermarch is called the Perlian, and Cretan, because it was wied amonest the Perlians and Cretans. And it was termed the Chorgan also, of the similitude it had with the solemne Gracian dances upon stages; the company, that shewed themselves in such dances being called Chorus. Who in their daunces ordered themselves into siles, and ranks, as soulaiers doe in battaile; and mouing forward to the brinke of the stage, when being straightned by the place, they could paffe no further, they retired one through the ranks of the other, exceeding not the bounds of the place, as is done in this Countermarch. The other two kinds of Countermarch changed the ground, they had before. The Macedonian tooke the ground before the front; The Lacedemonian the ground after the reare. The Chorwan boldets the same ground & beginneth the motion with the File-leaders, who notwithstanding proceede no further, then thither, where the Bringers-up flood, their files following them; & enery fouldier keeping the same distance, he had before the moning. The figure shewes the manner of it. h These Countermarches by file, are to be made, when the enemy appeares h Xenoph, de in the reare, and commeth to charge us. And they are made to the end, to bring our beff sep. Laced men, that is the File-leaders, to the incounter. Wherein not withfranding there is a caution 686. E.

to be held, that if the enemy be very neare, or so neare, that we cannot conveniently coun- See Teo cap. termarch, before he come up to us, we forbeare, left we fall into disorder, and in disorder 18.5. 39. be easily defeated. In which case the best remedy is to turne faces about, and so receive bim. Hitherto of Countermarches by file.

4 Countermarches by ranke are made] The ends of Countermarches by ranke are two in Elian: one to firengthen the middest of the battaile; the other to strengthen the wings. If the strength of the enemies battaile, lee most in the middest, reason of Warre would, that we should oppose our greatest strength against the middest. If in the wings against the winges. There is an other cause of strengthning the winges, namely if the enemy be ready to charge either of them: and this strength Elian would have given by the Countermarch of our best men into the winges. It fall not be from the purpose to make all plaine by an example or two. Herodotus reporteth, that before i Herodotin the battaile of Platza betwixt the Gracians, and the Persians, it was agreed be- & Plutarch, m twixt the Athenians, and Lacedemonians, that where the Athenians had van- Aniftide. quished the Persians in the battaile of Marathon, and had lately slaine Massistius the Generall of the Persian horse; and by those incounters had good experience of the Persian manner of fight; and where the Lacedemonians were imbattailed in the right wing against the Persians, the Athenians in the lest wing against the Thebans, and other Gracians, that tooke part with the Perlians: they should change, and the Athenians have the right wing, the Lacedemonians the left.

These newes were caried to Mardonius the Generall of the Persians; who whether fearing the Athenians, or desirous to fight with the Lacedemonians, changed his place from the left into his right wing, to the intent to oppole against them; which when Paulanias faw, he returned to his right wing, and Mardonius to his left, the place, which he had at the beginning. Here are changing wines on both parts; The one coueting to fight in the left wing, the other desirous to fight in the right The Countermarch by ranke from the right wing would have fitted Paulanias: as the contrary Countermarch would have fitted Mardonius. Tet am I led to thinke that Pau-Sanias veed a wheeling of his battaile, and so converghed it from one wing to an other behind the battaile of the other Gracians, to the end, that being shadowed by them, hee might the better hide his purpose from Mardonius. In other example I finde in Livy k Lir. decad 3. and Polybius both. It is this : k Pub: Scipio, who was afterward called Africanus, and Afdraball the sonne of Gifgo, being incamped neare together in Spaine brought daily out of their Campes their Armies one against an other. And after they had long flood waiting, who should begin the fight, which was done at neither hand, they conveighed them backe againe. The manner of their imbattailing was this. The Romans, and likewise the Carthagineans mingled with the Africans, had the middle, their Confederates the wings. The opinion was they should fight in that order. Scipio when he perceived this to be firmely beleeued, the day before he ment to fight, made an alteration of all. When night came, he gaue the word thorough the whole Campe, that horse, and men should dine, before it was light day, and that the horsemen in Armes should keepe their horses bridled, and sadled. The day was scarse sprunge, when he sent his horse, and light-armed to beat in the Carthaginean Gardes, himselfe streight followed with the armed Legions; disposing the Romans (contrary to the setled opinion of his owne people, and of the enemy) in the wings, and receining the Allies into the middeft. Afarubal raised out of his bed with the cry of his horsemen, had no sooner leaped out of his Tent, and seing the tumult before the trench of his Campe, and the amazednes of his people, and the Ensignes of the Legions shining a farre of, and the field full of enemies, prefently fent out his whole power of horse to vndertake the Roman horse. Himselse issued out of the Campe with his foote, not changing any thing of his wonted manner of imbattailing. The fight of the horsemen had now a long time beene doubtfull, and could not bee tried, because still, as they were beaten (which hapned a like to both) they found a safe retreat within the battailes of foote. But when the Armies were come within 500 paces one of an other, Scipio giuing a fignall of Retreat, and opening his battaile, received all the horse, and light-armed into the middest, and dividing them into two parts, placed them as seconds, behind the wings. Now when time was come to begin the fight, he commanded the Spaniards, who had the middle ward, to march on leasurely, and sent a messenger from the right winge (for hee commanded there) to Syllanus and Martius, willing them to Bretch out the left winge, as they law him firetch out the right; and to charge the enemy with the light-armed, and horse, before the middle wards might be able to come vp, and ioyne. The winges being thus stretched out, they led with all possible speed three Cohorts of foote, and three troupes of horse a peece, against the enemy, besides the light-armed, and those that were received into the Reare, who followed a thwart. There was a great empty space in the middest, because the Enfignes of the Spaniards came flowly on. And now the wings were in fight, when the old souldiers Carthaginians and Africans, the strength of the Armie, were

not yet come to vie their darts, neither durst they runne into the wings to helpe them, that fought for feare of opening the middeft of the battaile to the enemy, who was comining on against them. The winges were pressed with a double medley. The Horse, light-armed, & Velices, wheeling about their Troupes, charge thei flanks. The Cohorts pushed on in front, to the end, to breake of the wings from the body of the battaile. And the conflict was vnequall both in all other respects, and especially because a rable, as it were of drudges, and vntrained Spaninds, were opposed against the Roman and Latin souldiers. The day being now farre spent, the Armie of Asaruball oppressed with the mornings tumult, and compelled to take the field, before they had strengthned their bodies with meat, began to faint, and faile in strength; which was the reason that Scipio lingered out the day, & made the fight somewhat late. For it was past the seuenth houre. before the winges of foote attached one an other: and yet the fight came later to the middle wards. So that the foorching heat of the fouth-funne, and the labour of standing armed, and hunger, and thirst, first afflicted their bodies, before they came to hands with the enemy. Therefore they Rood leaning vpon their Targets, and being weary both in body, and minde, they gaue backe at last; keeping notwithstanding their array no otherwise, than as if the battaile being yet entire, had retreated at the commandement of the Generall. But when the vifors, perceiving them to shrinke, so much the more eagerly pressed on, the brunt could hardly be indured any longer. And although Afdrubal restrained, and stopped them, that gaue ground, crying that hills and a safe place of retreat was at their backs, if they could be but intreated, to retire eafily; yet feare ouercomming shame, and the enemy killing them that were next to hand, they forthwith turned their backs, and vniuerfally powred out themselves into flight. This stratagem of Scipio resteth principally in shifting his best men (the Romans) into the winges; the Spaniards his worst into the middest, and in keeping the Spaniards aloofe from loyning; and in hasting to try the day with the Romans against the weakest of the enemy. Asdrubals way to meete with this stratagem had beene to countermarch by ranke halfe his Carthaginians, and Africans into one winge, and halfe into theother. And by that meanes his Spaniards should have had the middest against the Roman-Spaniards, and his old fouldiers Carthaginians and Africans beene opposed in the wings against the Romans, and Latins, and the advantage eluded, that Scipio Sought.

Is the Countermarches by file were of threekindes, so are the Countermarches by ranke; namely the Maccedonian, the Lacedononian, and the Chorgan. The Maccedonian beginneth to move at the corner of the wing, which is nearest to the teneny, the enemy appearing to either flunke. And therefore incarreth the same imputation, that was laid upon the Maccedonian countermarch by sile; as seeming to runne away, because it dismarcheth from the enemy. Tet is there wife of it, as well as of that by file. For this countermarch you may set the strongest part of your Armie against the enemy, and apply the weakest to some Riner, Lake, hill, or such like, so that the enemy can not come to incompasse it. It sakesh the ground that byth on the side of the contrary wing. The Lacedononian takesh the ground that lived on the side of that wing, which it toward the enemy, and bringed the best mens to be formed against the enemy: And therefore beginneth the moving on the contrary side. The wife of it is when your forces are such as are able to incounter the enemy, and we desire to bring your best men to such as are able to incounter the enemy, and we desire to bring your best men to such as are able to incounter the enemy, and you desire to bring your best men to such as are able to incounter the enemy, and you desire to bring your best men to such as are able to incounter the enemy, and you desire to bring your best men to such as a might buse the such as a such buse the such as a might buse the such as a such as a such as a such buse the such as a might buse the such as a such as

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The Tacticks

beene done in the last example cited concerning Scipio and Asdrubal. The manner of countermarch by ranke is contrary to the countermarch by file. In countermarch by file the motion was in the depth of the battaile, and either the front removed toward the reare, or the reare toward the front, and tooke one an others place. In this the motion is in length of the battule flanke-wife; the wing either marching into the middeft, or elfe cleane thorow to the other wing. In doing it the fouldiers, that stand vetermost in the flanke of the wing, must move fust to the contrary wing, and the rest of every ranke severally follow them in order, The figure will shew the manner of the motion. Patritius vetterly mistaketh the countermarch by ranke; and groundeth himselfe upon a wrong principle, namely that in all Countermarches the File-leaders must march toward the reare, and the Bringers-vp towards the front. and therefore in changing the winges into Sections, he makes the winges to fall of behind in the reare (the File-leaders wheeling about) and there to some themselves as neare, as the middle Section will give leave, and the Sections falling backe likewife, to toyne themselves to the flanks of them. that were the wings. Whereas the nature of this Evolution is clearly to leave the Fileleaders in front, and Bringers-up inveare, as they were at first. And albeit the File-leadersthen change their places, yet change they their place with none, but with File leaders, and the change is, but a change of hands, the right hand for the left, or the left hand for the right. For whereas the File-leaders of the right wing had before the right hand, now in countermarch by ranke, being transposed to the left wing, they have the left hand of all the rest of the File leaders; as likewise the Bringers-up of the other bringers-up.

The words of Command may be thefe,

For the Macedonian Countermarch by file.

File-leaders turne your faces about (to the right or left hand). The rest of every File passe thorow in order one after another, and place your selves at your distances after your Leaders, turning your faces about; and fo stand.

For the Lacedemonian Countermarch by file.

The first manner.

Bringers-up, turne your faces about (to the right or left hand.) The rest turne your faces about and beginning at them, that are next to the Bringers-up, countermarch and place your selves in your distances before the Bringers-up, and one before an other till the File-leaders be firft.

The fecond manner.

File leaders, countermarch to the right, or left hand, and let every mans file follow him, and keepe true distance.

For the Chorean countermarch by file.

File-leaders, countermarch to the place of the Bringers-up, and fland, and let your files follow you keeping their distance.

For the Macedonian countermarch by ranke. The right or left hand corner file, turne your faces to the right, or left hand. Therest of each ranke, passe thorough to the right, or left hand; and place your selues orderly behind your fide-men keeping your diftance.

For

For the Lacedemonian countermarch by ranke.

The first manner.

The corner file, where the enemy appeareth, turne your faces to the right or left hand; Therest of echrankes turne your faces, and passe thorough, (to the right or left hand) and place your selves before your side-men orderly keeping your distances.

The fecond manner.

The right or left wing, where the enemy appeareth not, countermarch to the contrary wing, and all in the Rank: follow enery man his fide man; keeping your diffance.

For the Chorgan countermarch by ranke.

The vitermost corner file of the right, or lest wing, countermarch into the place of the lest or right winge, and fland.

And the rest follow ranke wise keeping their distance.

Of doubling, and the kindes thereof.

CHAP. XXIX.

There are two kinds of doubling, one of Rankes, the other of Depth, of files: and either of these double the number, or the place. 3 The length is doubled in number when of a front of 124 siles we make a front (keeping the same ground) of 148 siles, by inserting in the spaces betwix file and sile, some of the followers, that stood in the depth. This is done to the end to thicken the length of the battaile. If we list to recall them to their first possure, we are to command those, that were inserted, to countermarch to the place, they had before.

A There are, that millike thele doublings, especially the enemy being at hand; and would have a shew of doubling made, without indeed doubling the Phalange already ordered, by stretching out the light-armed, and the starse, on both sides of the wings of the Battalle. 5 The vse of doubling the length is, when either we would eser-wing the enemy, or else our selues feare to be over-winged.

The Depth is daubled by inferring the fector of file into the first; so that the Leader of the second file into the first; so that the Leader of the second file be the fourth man of the second file be the fixt in the first sile, and so touth the rest, still the whole second sile be ingrossed into the first; and likewise the fourth file into the third, and all the cuen files into the odde.

Doub im of the Depth by Countermarch is made, either when the next side siles in several [as in the former example the second, and the sourth, and the rest of the euen siles] countermarch to the Rearc, and place themselves behind the Bringerstap of the odde siles; or else the siles remaying in their first place, and number, halfe of them, dividing themselves from the other halfe, countermarch likewise to the Rearc, and conveying themselves behind the other, there order themselves, and so double the depth of the Philange.

If we would returne them to the first posture, we must recall those, that were conveyed to stand behind, to the place they had before the Countermatch.

HE former three Motions alter not the forme of the Phalange. For whether you turned faces, who celed, or countermarched the Phalange, the depth and length remain ned one. The motion to be expressed in this Chapter induceto an other shape to the Phalange; and maketh it feeme a different body from that it was before, being by Doubling extended either in length or in depth. For Doubling the number of men, or the place of the Phalange in front, maketh the length twife as much, and doubling the lame in flanke maketh the depth double to that it was before. For Doubling is nothing elfe. then making a military body twife as long, or twife as deepe, as it was before.

I There are two kindes of doubling] The Doublings are either of length n Suidas i i or depth; Or (w'ich is all one as " Suidas faith) of ranks or files. For ranks firetch wird Digitalia- out in length, files in depth. And these againe are divided into two other kinds, the

2 Doubled in number or place \ That which is here called number, is called elfeo Suidas incl., where persons; or " (by Suidas) men. It is called persons in the Insertion which is word D. plefis- made to Alian, I know not by whom, in the precedent Chapter of Countermarches. Which because it lay thrust in between the description of Countermarches, and nothing perteined to that argument, I never made doubt, was crept into the text. And I am rather confirmed in my opinion, because I faw it notes with an Asteriske in that Elian (being of Robortellus Edition) which the learned Hanck Calaubon had quoted and purposed to fet forth, if untimely d'ath had not prevented im. I will here fet downe the words, because they differ not much from Elian, and may give some light to the manner of Doubling. It is to be understood (fo are the words) hat a Phalange is doubled in persons, or place. when we therefore take halte the fouldiers from the Depth, and making files of them, place them even with the rest in length of the front, so that of 124 files we make 248, this is Doubling of persons. In like fort we double the place with 124 files (not increasing the number) but onely commanding some to turne to the Pike, some to the Target, till the Phalange be firetched out to a convenient length, as from 5 furlongs to 10. In the same manner is the depth doubled. For either one file is inferted into an other, man for man, fo that the fecond File leader becomes the follower of the first, and the second man in the second file, the follower of the second in the first file, and so the rest: Or else 16 men are so extended, that they hold as much ground in length, as 32 vsuallydoe. So farretheinfertion. It followethin Elian.

3 The length is doubled in number] When the front hath twife its many files, as it had before, this is Doubling in number, or in men, or in persons. For the persons, or men, make the number in the files. And the files carrying an even depth of men, and being doubled, double the number of the front, or Ingth. Elinn beaketh but of one kinde of doubling, namely of number, and that must be done in open order, as I said before. For the files of 16 standing in open order if you command the Middlemen (as we terme them at this day, they were called in the Macedonian files the third Enomotarchs) to double their ranks: These middle men with the hinder halfe file march up to the front, de lo doubling the front in number leave yet the same measure of length. The figure showeth how it is done. Yet are there two other maies, when the Phalange flandeth in close order both which double the number, and place. One is when the Middlemen divide themselves, and one halfe with their followers turning their faces march out of the right flanke: The other of the left flanke of the Phalange. And then turning their faces againe,

seeme up and ionne themselves in an even line with the File leaders in front; The other when all the Middle turne their faces one way and march out with the r followers beyond one flanke right or left; and turning faces againe fleeue up to the front, and fland even with the File-leaders. One of thefe is done, when we defire to enlarge both the wings of the Phalange; the other, when but one wing. Of thefe two last water, I have fet downe no figure, because I finde them not expressed in Elian. Cleandridas the Lacedemonian, vfed yet an other kinde not foken of by Elian. Polienus telleibthe flory thus : n Polyenlib i. Cleandridas making watre vpon the Thursans, having halfe as many men againe, in Cleandrida. as they, conceiving if they had intelligence hereof, they would hardly bee brought to fight, imbattailing his Phalange, stretched it out in depth. The Lucans therefore, contemning the small number, drew out their forces in length. with intent to over-front the enemy; which Cleandridas perceining, commanded the followers to march up, and ranke with their Leaders; and by that meanes increased the length of his Phalange, and ouer fronted the enemy; who being incompaffed, and affailed with miffine weapons on all hands perilhed intirely, excepting a few, that faued themselues by shamefull flight. The words seeme obscure to aman not acquainted with the Tatticks. There are two kinde of foldiers (aith Elian in a file, Leaders, and followers. All the Leaders are the odde of the file; as the first, the 2. the 5, the 7, and so forth: the followers are the even, as the 2 4,6,8. Those that are in the Same ranke, are called fide-men. Now, Saith Polien, Cleandridas willed the followers to step forward, and to ranke, and become fide-men with their Leaders: that is, he willed the even files to double their ranks with the odde; and fo extenuated the depth, but increased the length of his Phalange; by which art he ouerfronted, inclosed the enemy on all sides. This way then to double ranks, or the length of the battaile, is to insert the cuen ranks man by man into the oade. All the Doublings that have beene rebearfed, were Doublings either in number alone, or elfe both in number, and place. For doubling of place alone nothing is faid in Elian. The Insertion I recited, supplyeth this defect: saying, the place is doubled with 124 files, onely by commanding halfe to turne to the Pike, halfe to the Target, till the Phalange be firetched to a convenient length; as from 5 furlongs to ten; which is as much to fay in few words, as to open the Phalange; Or to bring it from order, to open order. For fo the front poffeffeth double ground to that it had before.

The vie of Doubling the length is] Two causes are asigned for the doubling of the length: One to ouerwing the enemy, the other to avoide overwinging our o see Len eap. selues. Cleandridas in the example aboue, performed both: For he both disappointed 1.8.69.8.79. the Lucans that fought to incompasse him, and besides incompassed, and inclosed them. The narrower the front is, it is the more in danger of over-fronting; P being p Xcnoph Cydrawne out in length it is freer from enclosing because a greater compassemust be setched, rop lis. 6.168. beforeit can be inclosed. Tet are we to take heed, that in doubling of the front, we give it not fo much length that it fails in depth. The want of length, or depth is alike dangerous, and grueth advantage to the enemy. I have touched before, and quoted Leo glaneing onely at his words. Now I will fet them downe as they lye: 4 When the thicknes q Locap ta or depth of the Phalange (faith he) is gathered vp and made more thinne, it be- \$.103. houeth not fo to lengthen it, that it become altogether weake and without depth. For it will so come to passe, that the enemy shall easily cut it in pecces, and make a passage thorough it, and not onely seeke to incompasseit before, but passing thorough the middest, bee found behinde, and there indamage it. And this it behooueth a Generall, not onely to take heede, hee fuffer not himselfe, but also indeasur to put vpon his enemy. Hitherte

i Leucap.7.

5- 19.

Hitherto are the words of Leo: shewing the disadvantage of a battaile too much thinned by doubling the length. But Leo elfembere andeth an other cause of doubling, namely to make thew a faire fight of the Armie. For the more ground it taketh in front, the more will the number appeare, and the bravery of every man in particular difeauered. Further Antigonus wied also this doubling for a policie to bequile his enemy. * Polien reporteth the fact thus : Antigonus incamped against Eumenes with an armie inferior in number. And when messengers were sent often from one to an other, Antigonus at the receit of a meffenger of the enemy, commanded one of his fouldiers to come running in, as it were out of breath, and all to be-fullied with dust, and to bring newes that his Confederates were come. Antigonus hearing the newes, leaped for joy, and fent away the messenger. The next day he led his Armie out of his trench, doubling the length of his front. When the enemy heard of their meffenger the newes, that was brought to Antigonus concerning his Confederates, and faw the length of his battaile doubled, they imagined that the depth was answerable to the front. And therefore they dislodged being atraid to lovne with him.

5 There are that mistike] Countermarches, and Elians doublings of number, are dangerous the enemy being ready to charge. Because the files of the Battaile must be kept in open Order is the motions be ended; which posture is not fit to receive the charge of the enemy, as we faw out of the eleventh Chapter. The other two doublings are done in close order, whereof I made mention a little before; The one dividing the middle men in halfe, and fleening them up by the battaile on both fides; The other fleening them upon one side which you will, may be used without danger, as well when the enemy is neare, as when the fight is : in as much, as they disturbe not the battaile, but advance

fresh aides against the enemy on the flanks of it. 6 By inferting the second file] There are two manner of doublings of the depth or of files; one in number, the other in place. In number, when one file is inserted into another, the Leader or first man of the second file standing behind the Leader of the first; the second behind the second, the third behind the third, and so forth of the rest: Or when the euen files countermarch, and their Leaders place themselues behind the Bringers up of the odde, their files following them; or (which commethal to one) the files being whole, they divide themselves into two parts in the front, and halfe countermarch, and place themselves in the Reare of the other file to file: albeit the two last are Doublings both in number and place, and not in place alone. The true Doubling of the place alone is not Alian. The Infertion whereof I pake, remedieth this defect alfo. There it is faid, that when 16 men (that is a file) are so extended, that they possesse as much length as 32 should doe, (that is, as 2 files) it is doubling of place. which is nothing elle but changing of the Souldiers order into open order. For in their order they have 48 foose in depth; in their open order 96 foose indepth. In this Doubling of depth we must take heed that we make not the front of our Armie to na row lest we give oportunitie to the enemy to insircle, and incompasse it. Poly bius noteth this a great fauls in Marcus Atilius Regulus, at Such sime as he fought with the Carthaginians, and was taken prisoner. Hu words have this effect : "The Romans seing the enemy order his battaile marched out against him full of courage. Being notwithstanding somewhat appalled at, and foreseing the Elephants violence in comming on they fet their Daviers before, and placed many maniples of Armed behind, one after an other, and divided the Horse halfe into one wing, halfe into the other. Then making the whole battaile shorter, but deeper, then they were wont, they promided well against the Elephants, but not against the Horse, that farre exceeded theirs

in number. Being now come to hands the Roman horse ouerpressed with multitude of the Carthaginians quickly fled from either wing. But the foote of the left wing, partly anoyding the Elephants, partly contemning the Mercenaries, fell on, and charged the right wing of the Carthaginians, and putting it to flight, followed hard, and gaue chase euen to the trench. But of those, that were placed against the Elephants, the first finking under the violence of the beasts, perished being ouerturned, and troden to death by heapes. The body of the battaile remained a while vnbroken by reason of the depth of them, that were after placed. But when the Reare of all, incompassed by the horse, was forced to turne about. and fight with them; and the other that had by force made way thorough the middest of the Elephants, and were now behind their backs, came vp to the fresh Phalange of the Carthaginians, standing in good order, they were bythem flaine. Thus fortune being contrary on all tides, the Romans for the most part were troden to death by the excessive might of the beasts, and the rest died with the darts of the horsemen in the place, where they fought. The error of Attilius Regulus was in ordering his battaile too deepe; by meanes whereof it was easily incompassed, and difressed by the Carthaginian horse. "Appian likewise blameth Antiochus for orde- m Appian m ring his Phalange 32 menin depth, where the Macedonian Phalange ought to but 16 deepe, Syriasus 107.10. heroing that by that overfight it was incompassed by the Romans, and overthrowne. I have touched the historie in my nows before. Many other examples might be alledged but thefe two are sufficient for our purpose.

The words of Command in doubling of the

length by number. Middle men double your Rankes to the right, or left hand.

By this Command the middle men with their halfe files march up to the front, in the spaces between the files, and stand even with the File-leaders, and the rest even with the rest of the Ranks.

Doubling of the length in place.

Stand in your open order.

One halfe openeth their files to the right hand, the other to the left, and stand fix foote one from an other.

Doubling of the depth in number.

Double your files to the right or left hand. The even files fall imothe spaces of the odde files.

Double your files by countermarch to the right or left hand.

The even files countermarch, and fall behind the reare of the odde, and place them-I lues lineally after them, observing their first distances.

Divide your files and double them by countermarch to the right, or left hand.

Hulfe the files divide themselves from the other halfe, and countermarch out behind the Reare, then turne their faces towards the place behind the Reare of the flanding files, which removed not; then murch on, and place themselves orderly behind them file to file, then turne their faces, as at first. Doubling the depth in place.

Ranks open behind to your open order.

The

The broad fronted Phalange, the deep Phalange, or Herse, and the uneuen-fronted Phalange.

CHAP. XXX.

P Lagiophalanx, or the broad-fronted Phalange, is that, which hath the length much exceeding the depth.

Orthinphalanx. or the deep Phalange (commonly called the Herfe) is that, which procedeth by wing having the depth much exceeding the length. In generall ipeach enery thing is called Parametes, which hath length more then the depth; and that which hath the depth more, then the length, Orthinn: and so likewise a Phalange.

The Phalange Loxe, or vneuen fronted, is that, which putteth forth one of the mins; (which is thought fitteft) toward the enemy, and withit beginning the fight, holdeth off the other in a convenient distance, till oportunitie bee to advance

Of Parembole, Protaxis, Epitaxis, Proftaxis, Eutaxis,

Hypotaxis.

CHAP. XXXI.

Parembole, or infertion is, when placing fouldiers before we take off the hind-most, and ranke them within the distances of the first.

Protaxis, or fore-fronting, is when we place the light-armed before the front of the armed, and make them fore-flanders, as the File-leaders are.

When we place the light-armed behind, it is called Epitaxis, as it were an afterplacing.

Proffaction or adjusting is when to both flowly 5.1.

Proflaxis, or adigning is, when to both flanks of the battaile, or to one flanke, some part of the hindmost is added, the front of them, that are added, lying euen with the front of the battaile; such addition is called Proflaxis.

Entaxis, or Infition, is when it feemeth good to fet the light-armed within the spaces of the siles of the Phalange man to man.

Hypotaxis, or Double winging, is when you befrow the light-armed under the wings of the Philange, placing them in an embowed forme; so that the whole figure refembleth a three-fold gate, or doore.

How the motions of wheeling, double, and treble wheeling of the battaile are to be made.

CHAP. XXXII.

I T followeth to thew how a battaile may be turned or wheeled, and how after reduced to the first posture, or Station.

When therefore wee would accustome our Troupes to wheele the battaile to

Ortbiogbalanx or the Herse



AKAKAKAKAKAKAKAKAKAKAKAKAKAKA

Prizzici, or firefronting





e,or Herse, and the

nat, which hath the length

ed the Herfe) is that, which ing the length. In generall ingth more then the depth; a, Orthion: and so likewise a

ch putteth forth one of the , and with it beginning the ce, till oportunitie bee to

axis, Eutaxis,

before we take off the hindfirst.

ner. he-armed before the front of ders are. d Epitaxis, as it were an after-

attaile, or to one flanke, some t are added, lying euen with faxis. t the light-armed within the

the light-armed vnder the forme; fo that the whole fi-

ereble wheeling

or wheeled, and how after pes to wheele the battaile to Plaguophalanx or the Brode-Tronical Phalange



Ortbiogbalanx or the Hense

Looksdance or 15 concover fronted Distance



Protoxic, or forefronting

The Front

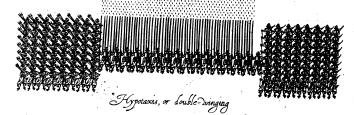
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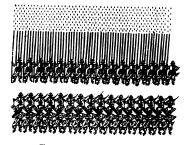
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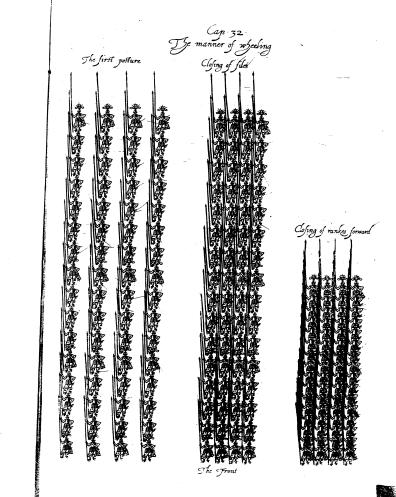
IT folk When



Entaxis, or insertion



Protaxis, or forefronting .



the right hand, we command the right-hand-file to ftand firme, & the rest of the filesto turne their faces to the right hand, and to moue close up to the right hand file. Then to turne their faces, as they were at first: Then the hinder rankes to close forward. Then the whole pattaile in that closenede to wheele about the corner-file-Leader to the right hand. This done, if neede be to reduce it to the first posture, or Station, wee command every man to turne about his face to the Target, or left hand (that is to looke the contrary way) Then to wheele about the body, that is, as it turned, closed, & ferred with the front to the right hand fo to returne it against to the place, from whence it made the wheeling; Then the file-Leaders to fland firme, and the rest to open their ranks behind; Then to turn their faces about, as they stood at first; Then the right-hand-file to stand fast, and the rest turning faces to the left hand to open their files; Then to stand; And lastly to turne their faces againe to the right hand: and so shall every man have his first posture.

But in case we desire to wheele to the left hand, we command the left-hand-file to ftand still, and all the rest to turne their faces to the left hand, and moone forwardelofe up to the left hand file; Then to turne their faces as they were; Then to gather up the hinderrankes; Then to wheele the battaile to the left hand, and stand; and so is it done, that was commanded. But if restitution to the first pofture be needfull, we must doe, as we did in returning from the right. For every man must turne about his face to the Pike; Then the whole battaile wheeling about the left-hand-corner-file-Leader must returne to the place, it had; Then all the file-Leaders stand firme, and turne about their faces, and the rest open their rankes in mouing forward and make Alte; Then the left hand file is to ftand firme (for it hath the place it first had) and the rest turning their faces to the right hand to open their files, and moue forward, till they have recovered their first distances; then to turne their faces as at first; and so shall every man be in his first posture. Now if we would wheelethe battaile about, to the pike we are to make 2 wheelings to the same side, so will it come to passe that the file-Leaders shall in the change have their faces turned to the Reare, where before they had them looking out from the front. But in restoring to the first posture we command it to wheele about to the right hand; That is, we give it two wheelings more the same way; So the file-Leaders will have their faces fer, as at first. Then we command the file-Leaders to fland firme, and the rest to open their rankes behind; then to turne their faces about; Then the right hand file to stand still (for it hath the right place) and the reft turning their faces to the right hand to march on, till the former distances are regained; then to make Alte. So is the battaile reduced to the first Station.

If you would have the battaile turne about to the Target, you are to give contrarie directions, That is, in flead of commanding a double wheeling to the Pike, to command a double wheeling to the Target; Then by making two turnes the

contrary way, to viethe like changes, we spake of before.

There is likewise a treble wheeling of the battaile, when it turneth thrice to the same hand, namely to the Pike, or Target. The double wheeling to the Pike transferreth the Souldiers face from the front to the backe of the battaile: The treble wheeling to the Pike bringeth his face to the left flanke. The treble wheeling to the Target contrariwife to the right flank.

The Tacticks

Notes.

Before in the 26 Chapter Ælian discoursed of wheeling, and the kindesthereof. The manner, how it is to be done, is reserved for this place, I neede not therefore remember any thing else, besides the words of command.

The words of command in Epistrophe.

The visierms/s file on the right or left hand stand sirme The rest turne saces (to the side purposed) and march up to the file standing sirme.

Faces as you were.

Close your rankes forward: Wheele the body (to the hand appointed) and when you have your ground, stand.

Returning to the first Posture, or Anastrophe.

Faces to the right or left hand Wheele backe the body to the ground, it first had.

Wheele backe the body to the ground, ii just had. File-Leaders stand firme: the other rankes open to their first place.

Faces about (to which hand you will)
The corner file (to which the turning was) fland firme, the rest open to their first ground.
Faces as you were, and arder your Pikes.

Perispasmos, or wheeling about.

In wheeling about, the same wordes to close the files, and rankes, are to bee ofed, which were wied in Epistrophe, there remaineth no more, then to say Prheele about your body, to the right, or left hand.

Anastrophe or returning to the first Posture.

Returne to your first Posture.

The same forme is weed, that was held in the former returning wnto the first posture for opening rankes and files.

Ecperispasmos, or treble wheeling.

In this motion the same course is held, that was in the wheeling; But only that you command a treble wheeling. And the returning to the first Posture, or Anastrophe is all one, but for the same difference.

Of closing the battaile to the right, or left hand, or to the middest.

CHAP. XXXIII.

If we would close, or thicken the Phalange in the right wing, we are to command the right-wing-corner-file to stand still, and the rest turning faces to the Piketo advance toward the right hand; Then to set their faces as they were, and to gather vp the rankes behinde. In reducing them to the sirt posture we are to command the sile-Leaders to stand, and the rest turning about their faces to open their

Josing to the middets

Ching to v right Sand in action

The Tacticks

Notes.

Before in the 26 Chapter Elian discoursed of whiching, and the kindes thereof. The manner, how it is to be done, is reserved for this place. I neede not therefore remember any thing elfe, besides the words of command.

The words of command in Epistrophe.

The vitermost file on the right or left hand stand sirme

The rest turne faces (to the side purposed) and march up to the file standing sirme.

Faces as you were.

Close your rankes forward: Wheele the body (to the hand appointed) and when you have your ground, stand.

Returning to the first Posture, or Anastrophe.

Faces to the right or left hand

Wheele backe the body to the ground, it first had.

File-Leaders stand firme: the other rankes open to their first place. Faces about (to which hand you will)

The corner file (to which the turning was) stand firme, the rest open to their first ground. Faces as you were, and order your Pikes.

Perispasmos, or wheeling about.

In wheeling about, the same wordes to close the files, and rankes, are to bee ofed, which were wed in Epistrophe, there remains the no more, then to fay Wheele about your body, to the right, or left hand.

Anastrophe or returning to the first Posture.

Returne to your first Posture. The same forme is weed, that was held in the former returning wate the first posture for opening rankes and files.

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CHAP. XXXIII.

I F we would close, or thicken the *Phalange* in the right wing, we are to command the right-wing-corner-file to ft and ftill, and the reft turning faces to the Pike to advance toward the right hand; Then to fet their faces as they were, and to gather vp the rankes behinde. In reducing them to the first posture we are to com mand the file-Leaders to stand, and the rest turning about their faces to open Jojang to the middlett

Therest turne foces (to the side purposed) and march wo so the play tanaing Faces as you were. Close your rankes forward: Wheele the body (so she hand appeinted) and when you have your ground, frand. Returning to the first Posture, or Anastrophe. Faces to the right or left hand Wheele backe the body to the ground, it first had. File-Leaders standsume: the other rankes open to their first place. Faces about (to which hand you will) The corner file (to which the turning was) stand firme, the rest open to their first ground. Faces as you were, and order your Pikes. Perispasmos, or wheeling about. In wheeling about, the same wordes to close the files, and rankes, are to bee In Processing about, see fame worses to eagle one just, and turned, and a gled, which were offed in Epitrophe, there remainesh no more, then to fay Wheele about your bady, to the right, or left hand. Anastrophe or returning to the first Posture. Returne to your first Posture. The same forme is vsed, that was held in the former returning unto the first posture for opening rankes and files. Ecperispasmos, or treble wheeling. In this motion the same course is held, that was in the wheeling; But only that you command a treble wheeling. And the returning to the first Posture, or Anastrophe is all one, but for the same difference. Of closing the battaile to the right, or left hand, or to the middest. CHAP. XXXIII. Fwe would close, or thicken the Phalange in the right wing, we are to command the right-wing-comer-file to fland fill, and the refit turning faces to the Pike to advance roward the right hand; Then to fet their faces as they were, and to gaaduance toward the right hand; a field to the tribe as they were, a full together up the rankes behinde. In reducing them to the first posture we are to command the file-Leaders to fland, and the rest turning about their faces to open

atl..., and the file Leaders to stand, and the rest turning about their faces to open their

their rankes behinde; Then to turne their faces as they were; Then the right-wing corner-file to (tand) (for it hath the right place aiready) and the reft proceeding onto the Target to follow their Leaders, and observing their distances to turne their faces as at lift. A contrarie course is to be held in thickning the Phslaret to the left wing.

If the Philange be to be closed in the middeft, the Diphilange on the right hand must turne their faces toward the Target, and the Diphilange on the left hand their faces toward the Pike; Then moue forward toward the middest of the Philange, Then, after their true distance gained, to set their faces, as they were, and to gather up the Rankes behind.

When we would reduce the *Phalange* to the first posture, wee command to turne faces about; then to open the Rankes, and all to moue on, but the first Ranke; then to turne their faces againe, and the right *Diphalange* turning to the Pike, and the left *Diphalange* to the Target to follow their Leaders, till they have recovered their first sittances. Then to set their faces, as they were.

This rule is to be observed in all turnings about of faces, when they are made out of closings, that the Pikes be aduanced, least they hinder the Souldier in making his turning.

The light-armed are to be taught, and exercised after the same manner.

Notes.

I Nibe 11 Chapter the diffunces, that one be to bee betwirt souldier and souldier, are particularly treated of. This Chapter showeth, how they are to be gained, that is, how we are to proceede out of one distance into autober. And because the open order is it, this is commonly begunne withall, it is here taught how from thence to passe to the rest, and to returne to it againe. The end of closings is spoken of before. In regard of place they are said to be of two kindes: One to the wing (right or less) the other to the middest of the Phalange. I cannot express the manner better, then by setting downer the worder of command, or direction, which are these sind commands or direction, which are these sind commands.

Closing to the right wing.

The right-wing-corner-file stand firme
The rest turne faces to the Pike, and move (according to the distance required) to the
right hand.

Faces, as you were. Close your binder ranks forward, and order your Pikes.

Restoring to the first posture.

File-Leaders stand firme.
The other Rankes, turne faces about, and open behinde to the first distance.

The other Rankes, turne faces about, and open beninue to the july infrance.

Faces as you were.

The right-wing-corner-file stand sirme; the rest turne faces to the Target, and proceede to your first distance.

Faces as you were; and order your Pikes.

Closing to the left wing.
Is differeth not from the other, but that the mouing is to the contrarie hand.

Closing

The Tallicks

Closing to the middest of the Battaile.

The right-wing turne faces to the Target, the left to the Pike. Each mone up to the middest of the Phalange, and land at the distance named.

Ctofe the hinder rankes forward, and order your Pikes.

Restoring to the first Posture.

The first ranke stand sirme.

Therest curne faces about, and open the rankes to the first distance.

Faces as you were.

The files next the middle section stand fast, and the right wing turne faces to the Target, the left to the Pike, and move on till the first distance recovered.

Faces as you were, and order the Pikes.

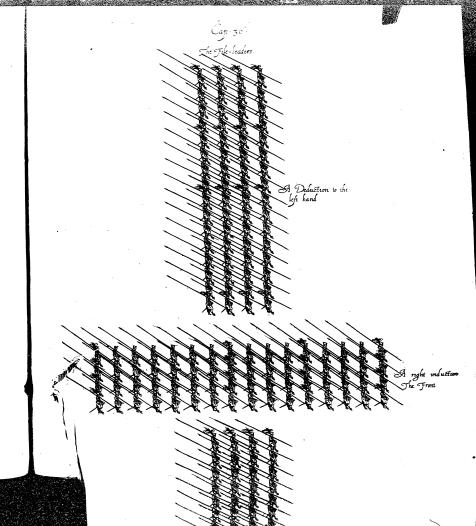
We may not forget Elians generall rule for turning of faces out of Clofings, that the Pikes be alwaies aduanced. For when you come op to the closenesser equiren, the Pike upon the shoulder will hardly admit turning of the face. The like falleth out when you would open from the Closing.

> The ve, and advantage of these exercises of armes.

CHAP. XXXIV.

Hele precepts of turning about of faces, of wheeling, and double wheeling of the Battaile, and of reducing it to the first posture, are of great vie in suddaine approches of the enemy, whether hee shew himselfe on the right, or left hand, or infront, or in the reare of our march. The like may bee faid of Countermarches ; Of which, the Macedonians are held to bee the inventors of the Macedonian; the Lacedemonians of the Lacedemonian; and for this cause either to have name accordingly. The Histories witnesse, that Philip (who much enlarged the Macedonian kingdome, and ouercame the Gracians in battaile at Cheronea, and made himselse Generall of Greece) and likewise his some Alexander (that in short time conquered all Mia) made small account of the Macedonian countermarch, vnlesse necessitie forced it; and that they both by the vie of the Lacedemonian became victorious ouer their enemies. For the Macedonian countermarch the enemy falling ypon the reare, is cause of great consusion; in as much as the hindermost diffnarching toward the front, and making a flew of running away, it more encourageth, and emboldneth the enemy to follow. For feare, and pursuit of the enemy ordinarily accompanieth that kinde of countermarch. But the Lacedemonian is of contrarie effect. For when the enemy sheweth himselfe in the reare, the Leaders with their followers brauely advancing, and opposing themselues, it strikethno small feare, and terror into their mindes.

CHAP.



The first vanke stand firme. The reft turne fixes about, and open the rankes to the first distance. The files next the middle fection standfast, and the right wing turne faces to the Targes, the left to the Pike, and move on till the first distance recovered. Faces as you were, and order the Pikes. We may not forget Alians generall rule for turning of faces out of Closings, that the Pikes be alwaies aduanced. For when you come op to the closenesse required, the Pike upon the shoulder will hardly admit turning of the face. The like falleth out when you would open from the Clofing. Deduction to the The ve, and advantage of these exercises of armes. CHAP. XXXIV. Hefe precepts of turning about of faces, of wheeling, and double wheeling of the Battaile, and of reducing it to the first posture, are of great vie in suddaine approches of the enemy, whether hee shew himselse on the right, or lest hand, or in front, or in thereare of our march. The like may bee faid of Countermarches; Of which, the Macedonians are held to bee the inventors of the Macedonian; the Lacedemonians of the Lacedemonian; and for this cause either to have name accordingly. The Histories witnesse, that Philip (who much enlarged the Macedonian kingdome, and ouercame the Grecians in battaile at Cheronea, and made himselse Generall of Greece) and likewise his some Alexander (that in short time conquered all Mia) made small account of the Macedonian countermarch, vnlesse necessitie forced it; and that they both by the vie of the Lacedemonian became victorious ouer their enemies. For the Macedonian countermarch the enemy falling vpon the reare, is cause of great confusion; in as much as the hindermost difmarching toward the front, and making a fnew of running away, it more encourageth, and emboldneth theenemy to follow. For feare, and pursuit of the enemy [ordinarily] accompanieth that kinde of countermarch. But the Lacedemonian is of contrarie effect. For when the enemy sheweth himselfe in the reare, the Leaders with their followers brauely advancing, and opposing themselues, it striketh no small feare, and terror into their mindes. CHAP.

Of the signes of direction, that are to be given to the armie, and their severall kindes.

CHAP. XXXV.

Ee are to acquaint our forces both foote, and holfe, partly with the voice, and partly with visible signes, that whatsoeuer is fitting be executed, and done, as occasion shall require. Some things also are to be denounced by the Trumpet, for so all directions will be fully accomplished, and sort to a defired effect. The fignes therefore, which are deliuered by voice, are most euident, and cleere, if they have no impediment. But the most certaine, and least tumultuous are such as are presented to the eye if they hee not obscured. The voice ds of knes aat is find ich a

The right Induction

gnal,

The front

Of the signes of direction, that are to be given to the armie, and their severall kindes.

 C_{HAP} , XXXV.

Ee are to acquaint our forces both foote, and horfe, partly with the voice, and partly with vifible fignes, that what foeuer is fitting be executed, and done, as occasion thail require. Some things allo are to be denounced by the Trumpet, for 6 all directions will be fully accomplished, and fort to a defined effect. The fignest herefore, which are deliuered by voice, are most enident, and cleere, if they have no impediment. But the most certaine, and least tumulturous are fisched as are preferred to the control of the second of the control of the control

Cajn : 36

The Codembins

The Phalange fet against y left (wing of y Coelemboss



The forbearing Phylange



Of the signes of direction, that are to be given to the armie, and their souerall kindes.

CHAP. XXXV.

Ee are to acquaint our forces both foote, and hot fe, partly with the voice, and partly with vifible fignes, that what oeuer is fitting be executed, and done, a soccation thail require. Some things also are to be denounced by the Trumper, for fo all directions will be fully accomplished, and fort to a defixed effect. The fignest herefore, which are delivered by voice, are most euident, and cleere, if they have no impediment. But the most certaine, and least tumultuous, are fuch, as are prefented to the eye, if they bee not obscured. The voice fometime can hardly be heard by reason of the clashing of armour, or trampling, and neighing of Horses, or tumult of cariage, or noyle, and constude so on the multitude. The visible tignes also become many waies incertain, by thickness of aire, and dust, or raine, or snow, or sun-shine, or else thorow ground, that is vineuen, or full of trees, or of tumings. And sometimes it will not be eastest of ind out signes for all vies, occasions estiones presenting new matter, to the which a man is not accustomed. Yet can it not fall out, that either by voice, or by signal, we should not give certaine and sure directions.

Of marching, and of divers kindes of Battailes fit for a March: And first of the right-induction, of the Coelembolos, and the Triphalange to be opposed against it,

CHAP. XXXVI.

Deing now to speake of marching I will first give to vnderstand, that some kind of march is a Right-induction, other some a Deduction on the right, or lest liand; And that in a single, or a couble, or treble, or quadruple sided-battaile. In a single, when one enemy is feared; in a double, when two; in a treble, when three; in a quadruple, when the enemy purposent to give on on all sides. Therefore the march is vndertaken sometimes in a single Phalange, some times in a two fold Phalange, or essentially of the single Phalange.

A right-induction is, when one body of the same kinde followeth another; as if a xenagylead, and the rest sollow xenage-wise. Or a Tetrarchy lead, and the rest sollow according to that forme. It is so called, when the march stretcheth it seleout into a wing hauing the Depth much exceeding the length.

Against it is opposed the * Calemboles, which is framed, when the Antistames * 115-1000 Against it is opposed the * Calemboles, which is framed, when the Antistames * Diphalange distoyness the Leading-wings, closing the Restein manner of the * Double letter V: as the figure after placed doth teach, In which the front is differented, & Phalange. The restein opposed, and knit together.

For the Right-induction pointing at the middest of the enemies battaile, the Calemboles quickly opening before serueth both to frustrate the charge of the front, and to classe in, and circumuent the flankes of the right-induction.

Further-

The Tacticks

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Furthermorea * Triphalange is to be let against the Calembolos, one Phalange fighting against one winge of the Calembolss; The second against the other, and the middle, and third forbearing, and expecting a time fit to charge.

of Paragoge, or Deduction.

CHAP. XXXVII.

P Aragoge, or Deduction is, when the Phalange proceedeth in a ming not by file, but by ranke, having the Commanders, or file-Leaders, either on the right hand, which is called a right-hand-Deduction, or on the left hand, which is called a lest-hand-Deduction. For the Philange marcheth in a double, treble, or quadruple-fide according to the place, and part, it is suspected, the enemy will give on. And both the Paragogies beginning the fight in flanke doe make the length double to the depth. This forme of fight was deuifed to teach a Souldier to receive heedfully the charge of the enemy not onely in front, but also in flanke.

of the Phalange Amphistomus.

CHAP. XXXVIII.

ted Phalange.

"He Phalange " Amphissmus (for it is so called , because it hath two fronts, and that part of the battaile, that is fet, and advanced against the enemie, is called a front) Seeing then in this forme the middlemost are ordered backe to backe, and those in front and reare make head against the enemy, the one being Commanders of the front, the other of the reare, therefore it is called Amphifts. mus. It is of great vie against an enemy strong in Horse, and able to give a hot, and dangerous charge; and principally practifed against those Barbarians, that "Harfines that inhabit about the river Ifter, whom they also call * Amphippi because they change

one fare, nice. Horfes in fight. The Horse battaile to encounter this forme hath a Tetragonall shape, being for the purpose divided into two broad-squares (they are broad-squares, that have the front twice as much as the depth) And these Squares are opposed severally against the divisions of the foot-battaile.

of the Phalange Antistomus.

CHAP. XXXIX.

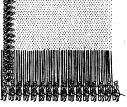
Phalante.

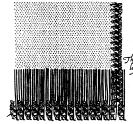
He Phalange * Antistomu is like the Amphistomu the forme being a little altered; so that it accustometh the souldier to result the severall kindes of incursions of Horse. All that hath beene spoken concerning the former Phelange both for foote, and Horse agreeth with this figure also. Herein they differ, that Cap: 37.

If four fronted Phalange against
all allemptes of the Enemy

The Front of y^e reure

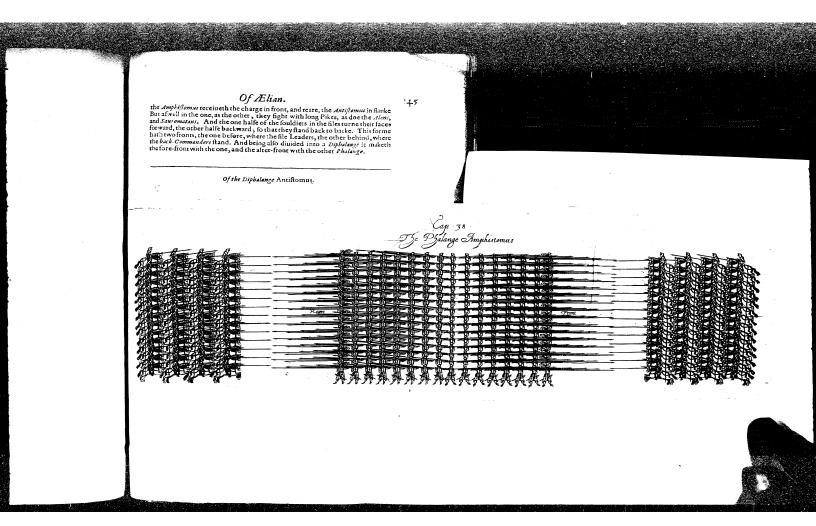


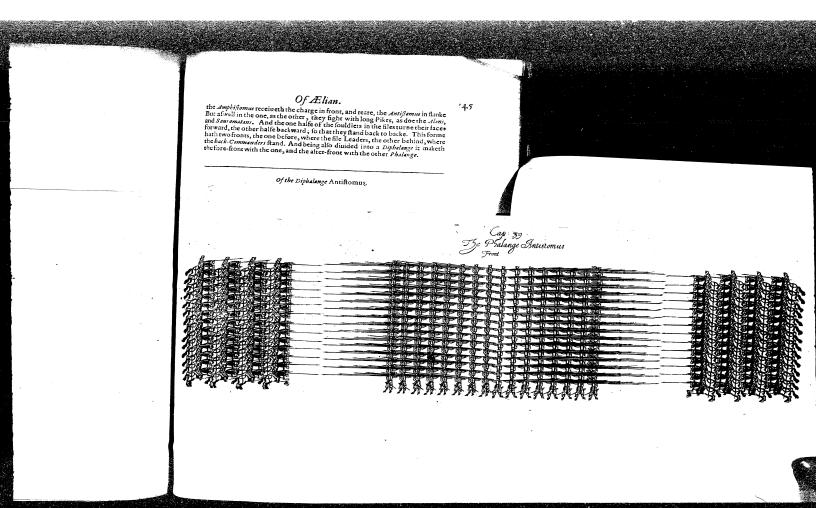


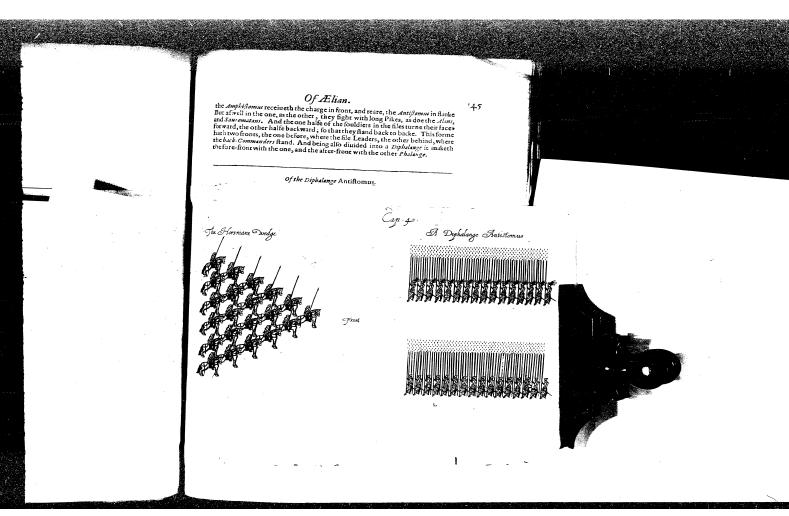




The Front of the March







Of Ælian.

the Amphistomus receiveth the charge in front, and reare, the Antistomus in stanke But as well in the one, as the other, they fight with long Pikes, as doe the Alans, and Saus manasus. And the one halfe of the souldiers in the silest unrether faces forward, the other halfe backward; so that they stand back to backe. This forme hat have fronts, the one before, where the file Leaders, the other behind, where the back-Commanders stand. And being also divided into a Diphalange it maketh the fore-front with the one, and the after-front with the other Phalange.

Of the Diphalange Antistomus.

CHAP. XL.

A Diphalange Antiformus is that, which hath the file-Leaders placed not in Deduction outwardly, but inwardly face to face one against an other, and the reare-Commanders without, one halfe in a right, the other in a left-hand Deduction.

This forme is vsed when the Horse giue on and charge Wedge-wise. For the *Wedge shooting foorth into a point, and hauing the Commanders following in flanke, and endeauouring to diffeuer, and breake the froit of the sorte, the Leaders of the sorte, foreseing their purpose, place themselheus in the middest with intent either to repulse them, or else to giue them a thorough passage without losse. For the Wedge slieth vpon the sorte in hope to charge the multitude in the middest, and to disorder the whole battaile: And the sorte Commanders coaciuing well the furry of that kinde of forme, leaue a little space betwire either front, and stand like walles on both sides, and iointly turning their faces toward the middest, giue them a fruitless, and employ passage.

This forme of Horfe-bartaile is called a Wedge by Tetticks, which was invented by Philip King of Macedon, who placed his best men before, that by them the weaker fort might be held in, and classed to the charge; as we see in a speare, or in a sword, the point whereof by reason of the sharpnesse quickely piercing maketh way for, and letteth in themsiddle blunt iron.

Of the Diphalange called Peristomus,

CHAP. XLI.

The Phalange of the Diphalange* Perisonau proceedesh by deduction in a wing, the oblique deduction on the right hand having the sile-Leaders without, the left hand oblique deduction to reare. Commanders within. The figure shewest the intent of them that fight so ordered. For the battaile going to charge, having beene at first Terragonal, divident it selfe into two oblique wings (the right, and the left) of purpose to enclose the adverse sparse-battaile. And they feating to bee inclosed transforme themselves into two several marching. Phalanges directing one against the right, the other against the left wing. Therefore it is called Peristomus, as having the front bent against the enemy both waits.

* Doubles ted Phala

* Horfenenellsei vie two harfes, one spare, she o ther beingwide, den vpon.

Doulbe flatt

The Tacticks

Of the Diphalange called Homoiostomos, and of the Plinthium.

CHAP. XLII.

fronted Phalange. A Diphalange* Homoiostomus is so named because a whole file (that is 16 mea) mouing by it selfe, another file followeth it. And it is therefore called Homoiostomus, because they that follow, follow in a like figure.

* A fourefidedbattaill square of men and ground. This kinde is oppofed against the Plinthium. * Plinthium is a forme of Battaile, that hath the fides equall both in figure and number. In figure because the distances are enery where equall, In number because there are as many men in length, as indepth. In this foure-fided-Battaile are none in the slankes, but armed, without Archer, or Slinger to helpe. When therefore two Phalanges march together, one by another, and both haue their Leaders either in a right-hand, or left-hand Deduction it is called a Diphalange Homosoftemus.

Of the Diphalange Heterostomus.

CHAP. XLIII.

* A double Phalange with conevary flanks.

A Diphalange * Heteroflomue is that, which proceedeth by Deduction, having the Leaders of the former Phalange in a right-hand-Deduction, and of the following Phalange in a left-hand-Deduction: to that the battailes march counterchangeably, one having the Leaders in one flanke, and the other in the other: and to the reft.

Againe of the Battaile called a Rhombe, and of the foote-halfe moone to encounter it.

CHAP. XLIV.

The battaile framed in forme of a Rhombe, was first intented by ilean the and accustomed the Thessalam, and was called the after his name; and to this forme he exercised and accustomed the Thessalam. It is of good vie, in that it hath a Leader at early corner, at the point the Captaine, of the Troupe, thereare-Commander behinde, and on either side the slanke-commanders. The foote battaile, fittest of affront this, is the Menvildes, or Cressalam, having both the wings stretched out, and in them the Leaders, and the middest imbowed to inuition and wrapin the Horsemen intheir giuing on. Whereupon the Horsemen ply the soot a farreoff with shying weapons, after the manner of the Tarentines, seeking thereby to disclose, and disorder their circled strange of marching. Tarentum is a City of sully, the Horsemen whereof are called Aerobolists, because in charging they sink as the little Daris; and after come to hands with the enemy.

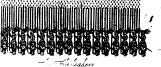
The Battaile called Plinthium

Cap-42-

The from

The front

Caje 43 · The Dighalange Fleterottomus





Of the Diphalange called Homoiostomos, and of the Plinthium.

CHAP. XLII.

ge^{*} Homoioftonus is fo named because a whole file (that is 16 men) be yit felfe, another file followeth it. And it is therefore called because they that follow, followe in a like figure. because they that follow, follower * pluthium is a forme of Battaile.

Decaufe they that follow, follow in a like figure.

soppofed against the Plinthinn. Plinthinn is a forme of Battaile, does quall both in figure and number. In figure becaufe the distance of the planthinn is a forme of the planthinn in the first planthinn in the first planthinn is a smany men in length, here equall, In number becaufe there are as many men in length, here equall, In number becaufe there are as many men in length, here equall, In number becaufe there as many men in length, here exists the first planthinn in t

Of the Diphalange Heterostomus.

CHAP. XLIII.

mee* Heterofimme is that, which proceedesh by Deduction, having Bers of the former Photonge in a right-hand-Deduction, and of the folage in a left-hand-Deduction: fo that the battailes march counterone having the Leadervin one flanke, and the other in the other:

Againe of the Battaile called a Rhombe, and of the foote-balfe moone to encounter it.

CHAP. XLIV.

taile framed in forme of a Rhombe, was first invented by Ilem the ion, and was called the after his name; and to this forme he exercifed med it to The fillium. It is of good vie, in that it hath a Leader are use the point the Capraine, of the Troupe, the reare-Commander be reither side the flanke-commanders. The foote betatalle, further to seither fide the flanke-commanders. The foote betatalle, further is, is the Atennites, or Cressons, having both the wings stretched out, the leaders, and the middeft imbowed to inuition and wrap in the simble ground of the strength of the strength

The Battaile called Plinthium The front Cap. 43 The Diphalange Fleteroftonous

The Dighalange Flomoiottomu

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and to the tere.

" A da lange h orary fi

> Againe of the Battaile called a Rhombe, and of the foote-halfe moone to encounter it.

CHAP. XLIV.

The falian, and was called the after his name; and to this forme he exercifed and accurronmed the The falians. It is of good vie, in that it hat a Leader at euery corner, at the point the Captaine, of the Troupe, the reare-Commander behinde, and on either fide the flanke-commanders. The foote bartaile, fittefits affirm this, is the Mensites; or Crefinst, having both the wings firecthed out, affront this tis the Mensites; or Crefinst, having both the wings firecthed out, and in them the Leaders, and the middeft imbowed to invitron and wrap in the Horfemen in their giving on. Whereuponthe Horfemen ply the foot a farre off with flying weapons, after the manner of the Tatenines, feeking thereby to difficult, and difforder their circled frame of marching. Tarestans is a City of Italy, the Horfemen whereof are called Aerobolis's, because in charging they first cash little Darts, and after come to hands with the enemy.

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Cap 45

Plagaophálanss, et y broad fronted battaile of foote

Heteromekes or y Henre of Horse

The from

Cap 43.
The Dighalange & Leterostorque



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Cap 45 -

Plagrophdianx, or y broad fronted battaile of foote

Heteromekes or y Hense of Honse

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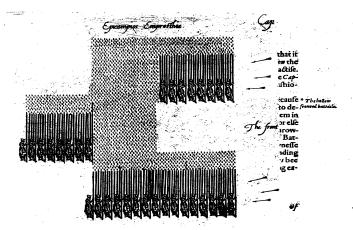
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Of the Horse-battaile Heteromekes, and of the Plagiophalange to be opposed against it.

CHAP. XLV.

He Horse battaile * Heteromekes is that, which hath the depth double to the a Marse. It is profitable in many respects. For seeming to cary but sew in so small a breath it document the enemy, and it cassly breaketh his forces with the thicknesse, and strength of the embattailing, and may without perceiting, bee lead thorough straight, and narrow palfages.

The Foot-battaile to encounter it is called the Plagiophalange, or broad-fronted Battaile. For being but slender in depth it beareth foorth and extendeth it selfs in length; so that, albeit it be broken in the middless with the charge of the Horse; yet is nothing broken, but a little of the depth; and thus forty of the Horse is carried not you the multitude of the Soote, but straight, and immediately, into the open sield. And for that cause is the length thereof much exceeding the depth.



Of the Horse battaile Heteromekes, and of the Plagiophalange to be opposed against it.

CHAP. XLV.

He Horse battaile * Heteromekes is that, which hath the depth double to the * AHerse. length. It is profitable in many respects. For seeming to cary but sew in so small a bredth it decement the enemy, and it easily breaketh his forces with the thicknesse, and strength of the embattailing, and may without perceiuing, bee lead thorough straight, and narrow passages.

The Foot-battaile to encounter it is called the Plaziophalange, or broad-fronted Battaile. For being but flender in depth is beareth foorth and extendeth it felle in langth; fo that, albeit it be broken in the middeft with the charge of the Horfe; yet is nothing broken, but a little of the depth; and the fury of the Horfe is carried not you the multitude of the foote, but flexight, and immediately, into the open field. And for that caule is the largeth thereof much exceeding the depth.

Of another kinde of Rhombe for Horsemen, and of the foote-Battaile Epicampios Emprosthia to encounter it.

CHAP. XLVI.

A Nother fort of Rhomboides there is, whereof I need fay no more, but that it fileth, and ranketh not. For I have before snewed the vie, and that Henn the The state was the inventor, and that I for M-dead husband most put it in practife. The vie thereof is great being directed, and lead, in the foure corners by the Captaine, the Lieutenant, and the two stanke-Commanders. It is commonly sathioned of Archerson Horsebacke, as the Armenian, and Persan manner is.

Against it is opposed the foore-battaile called * Epicampies Empressibia, because * Thi halve the circumduction of the front is like an embowing. The end of this forme is to de-fremed battaile ceiue and outer-reach the Archiers on Hotsebacke either by wrapping them in the voide space of the front, as they charge, and gine on vpon the spuring them in the voide space of the front, as they charge, and gine on vpon the spuring them first with their wings, and breaking their sury, by ouer throwing them finally with their rankes about the middle Ensigness. This kinde of Battaile was denifed to entrappe and beguile. For opening the middle hollownesses it makes the she who to a few, that march in the wings, having notwithst anding thrice as many following, and seconding, in the reare. So that, if the wings bee of power sufficient for the encounter, there needeth no more; if not, tetiring eafily on either fide, they are to joyne themselves to the bulke of the Battaile.

Of the foot-battaile called Cytte, which is to be fet against the Epicampios.

CHAP. XLV.II.

* The conserve

The Battaile to be opposed against the Epicempies is called * Cyrte of the circumstreat forme. This also maketh semblance of small forces by reason of the connexitie of the figure. For all round things appeare little in compasse; and yet stretched out in length, and singled, they proue twice as much, as they appeared to be: as is enider in pillars, which are round; and therefore in fight show the one halte, and conceale the other.

The greatest piece of skill in embattailing, is to make a shew of few mento the creemy, and indeed to bring twice as many to fight.

Of the Tetragonall Horfe-battaile and of the wedge of foote to be opposed against it.

CHAP. XLVIII.

* Foure-Square.

The * Tetragonal Horsebattaile is square in figure, but not in number of men
For in Squares the number is not alwaies the same: and the Generall so his
advantage may double the length to the depth. The Petsians, Sicilians, and most
of the Gracians doe affect this forme, and take it to be easie in framing, and better in vie.

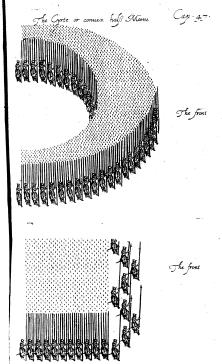
" Wedge.

The inventor of the Phalange called * Embolas, or Wedge of foote, all the fides confiding of a raned men. This kinde is betrowed of the Horfe-mans wedge. And yet in the Horfe-wedge, one fufficet to lead in front, where the Footewedge multi have three, one being vnable to beare the frway of the encounter. So Epaminandas the Theban fighting with the Lacedomonians at Maninea, outertieve a mightie power of theirs by caffing his armic into a Wedge. It is fathioned if the Antistomia Diphalangy in marching toyne the front of the wings together, holding them open behind like wno the letter A.

Of the foot-Battaile called Ploefium, and of the winding, or faw-fronted foot-battaile to excounter it.

CHAP. XLIX.

The Buttaile Placium hath the length much exceeding the depth. And its called Placium, when armed foor are placed on all fides, the Archers, and Slingers, being throwne into the middleft. Against this kinde of Bartaile is fet the winding-fronted-battaile, to the end that with the vnequall figure, they may



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* The connexe-

He Battaile cumferent the conuexitie o vet ftretched ou red to be : as is el the one halfe, an The greatest ;

the enemy, and i

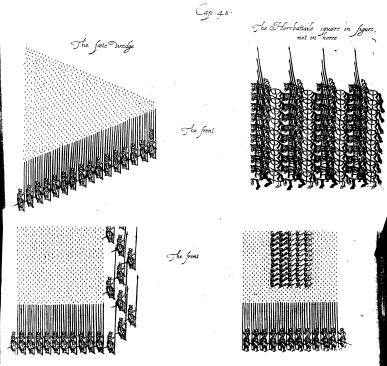
THe * Tetrag aduantage may c of the Gracians de ter in víc.

Against is opj fides confiling of a most of the first one fufficeth to lead in front, where the Footewedge must have three, one being ynable to beare the sway of the encounter, So Epaminadas the Thebam fighting with the Lacedemonians at Mustinea, outsthrew a mightie power of theirs by casting bus armie into a Wedge. It is fall timed if the Antiforma Diphalang in marching toyne the front of the wings together, holding them open behind like vnto the letter A. Against it is op

> Of the foot-Battaile called Ploefium, and of the winding, or saw-fronted foot-battaile to encounterit.

> > CHAP. XLIX.

He Battaile Plassium hath the length much exceeding the depth. Anditis called Plassium, when armed soore are placed on all sides, the Archers, and Slingers, being thrown einto the middest. Against this kinde of Battaile is set the winding-fronted-battaile, to the end that with the vnequal figure, they may reaine



* The consexebattaite.

He Ba cumfe the connexi yet firetche red to be : 25 the one half The grea

the enemy, :

* Foure-Square.

aduantage n of the Gracia ter in víc.

Against it i fides confifts And yet in th

..... So Epaminonaas the Theban lighting with the Lacedemonians at Mantinea, otterwedge must threw a mightiepower of theirs by casting his armic into a Wedge, It is fashioned if the Antistomus Diphalangy in marching ioyne the front of the wings together, holding them open behind like vnto the letter A.

Of the foot-Battaile called Picefium, and of the win-ding, or faw-fronted foot-battaile to encounter it.

CHAP. XLIX.

The Buttaile Plassium hath the length much exceeding the depth. Andiris called Plassium, when armed soote are placed on all sides, the Archers, and alled Plafium, when armed foote are placed on an idea, the Arthures Slingers, being throwne into the middelf. Against this kinde of Battaile is fet the winding-fromted-battaile, to the end that with the vnequall figure, they may traine

The overfronting battaile The adverse battaile The Peplegmene The Plesium The front

* The consexebastaile, THe Ba cumfe the conuexi yet firetche red to be:28 the one half Cap : 50

The adverse battaile

The outsfronting battaile

Of conveying the Carisge of the Army.

CHAP. LI.

Heleading of the cariage, if any thing elle, is of great importance, and require the alpeciall Commander. It may be conveyed in five manners, either before the Armie, or behinde, or on the one flanke, or the other, or in the middeft.

Before the Army, when you feare to be charged behind. Behind the Army, when you would leade toward the enemy. When you feare to be charged in flanke on the contrary fide. In the middeft, when a hollow-Battaile is needfull and fir.

Of the words of Com nand, and certaine obseruations about them.

CHAP. LII.

Aft of all wee will briefly repeate the words of direction, if we admonifh, first that they ought to be floor, then that they ought to be without double-spaiff-easien. For the Souldiers, that in hast receive direction, had needet or take heede of doubtfull words, least one doe one thing, and another the contrarie. As for the number of the sould be supposed to the supposed to the sould be suppo

Cap 50. The other inging butter!

The adverse butter!

Of conveying the Cariage of the Army.

CHAP. LI.

Heleading of the cariage, if any thing elfe, is of great importance, and tea quireth a speciall Commander. It may bee conneyed in fine manners, either before the Armie, or behinde, or on the one flanke, or the other, or in the middeft.

Before the Army, when you feare to be charged behind. Behind the Army, when you would leade toward the enemy. When you feare to be charged in flanke on the contrary fide. In the middelt, when a hollow-Battaile is needfull and fit.

Of the words of Com nand, and certaine obsernations about them.

CHAP. LII.

Aft of all wee will briefly repeate the words of direction, if we admonith, first that they ought to be short, then that they ought to be without deable. Ignification. For the Souldiers, that in hast receive direction, had neede to take heede of doubtfull words, least one doe one thing, and another the contrarie. As for the N 2

traine out thole of the Plafara to cope with the foremost of the winding frances. battaile, and by that meanes diffolue, and diforder the thickneffe of the fame. And the file-Leaders of the winding battale are to observe, and marke the file-Leadersofthe Plasium, that if they fill maintaine their closenelle, and fight ferred, they also inconner them in the like forme; if the Plefam file Leaders feuer themselues, and spring out from their maine sorce, then they likewise bee ready, to meet them man to main,

2.53 \$

exact our reserved pour sugar for the careful and our temper of contest many of temper of contest many of the careful and the of Byperphilange for and Bypetherafte; and

CHAP. L.

I reach the enemies front. Hisperkerasis, or our wings of the Phalange ouerwings we ouer-reach the front of the enemy. So that hee, that over fronteth, overwingeth, but hee, that our wingeth, part fronteth not. For they, that match not the enemy in multitude, may yet over wing them.

Attenuation or leffening is, when the depth of the barraile is gathered vp ; and in flead of 16 men a smaller number is set.

Of consecting the Caringe of the Army, and the Caringe of the Army, and the Caringe of the Army, and the Caring of the Caring of

Heleading of the cariage, if any thing elfe, is of great importance, and require the appearance of the manners, eigenvalues and the manners, eigenvalues are the manners a ther before the Armie, or behinde, or on the one flanke, or the other, or in the

Before the Army, when you feare to beecharged behind. Behind the Army, when you would leade toward the enemy. When you feare to beecharged in flanke on the contrary fide. In the middeft, when a hollow-Battaile is needfull

> Of the words of Com nand, and certaine obsernations about them.

> > CHAP. LIT.

Aft of all wee will briefly repeate the words of direction, if we admonith, first that they ought to be short, then that they ought to be without shable-fignifcation. For the Souldiers, that in half receine direction, had neede to take heede of doubtfull words, leaft one doe one thing, and another the contrarie. As for the

The Tallicks

purpole : If fay terme your face, some it may be, that heare mee , will turne to the right, somete the left hand, and so no small confusion follow. Seeing therefore thele words turne gent fice import a generall fignification, and comprehend turning to the right, or left hand, we ought in flead of faying turne your face to the pik., to pronounce it thus: To your Pike turne your face, that is, we ought to fet the particular before, and then inferre the generall. Like reason is , if you say, surne about Jour face, or countermarch. For these are also generall words ; And therefore wee should do well to set the particular before. As to the Pike turne your face about, or to the Target turne your face about. Likewise the Lacedemonian countermarch, nor the Countermarch Lacedemonian. For if you place the word Countermarch first, some of the Souldiers will happily fall to one kind, other to another kinde of Countermarch. For which cause words of double sense are to be avoided, and the speciall to be fet before the generall.

of silence to be vsed by Souldiers.

CHAP. LIII.

By aboue all things filence is to bee commanded, and that beed be given to directions: As Homere specially significate in his discriptions of the Gracian and Troiss fights.

The skilfull Cheef-taines pressed on, guiding with carefull eie Their Armed sroupes, who followed their Leaders filently. You furely would have deem'd, each one of all that mighty thronge Had been bereft of feach, so brideled be his heedfull tongue, Fearing the dread Commanders checke, and awfull heft's among. Thus march's the Greekes in filence, breathing flames of high de fire, And ferment seale, to backe their friends, on foes to wreake their ire.

As for the disorder of the Barbarians he resembleth irro birdes saying.

as sholes of fowle, geese, cranes, and swannes with necks far stretched out, Which in the flimy fennes Cautters winding streames about Sheare bere, and shere, the liquid skie, forting on wanton wing. Then fall to ground with clanging noise, the fennes all over ring: None otherwise the Troians fill the field with heaped sounds Of broken, and confused cries, each where sumult abounds.

And againe:

The Captaines mar fall out their Troupes ranged in goodly guife; And footh the Troians pace like birds, which lade the aire with cries. Not fo the Greekes, whose stemee breathed flames of high defire, Fernent in zeale to back their friends, on foes to wreake their ire.

of Ælian.

The words of Command.

CHAP. LIIII.

Thus then are we to command.

O your Armes. Stand by your Armes. Cariage away from the battaile. Marke your directions. Seperate your felnes. Aduance your Pikes. File and ranke your felues. Looke to your Leader. Reare Commander order your file. . Keepe your first distances. b Faces to the Pike, moue a little further, fland fo, as you were 6 Faces to the Target, mone a little further, ft and fo.
6 Faces about to the Pike, mone a little further, ft and fo. c Double your Depth. To your first posture. e Beforecap.24 c Double your Length. To your first posture. d The Lacedemonian counterwarch. To your first posture. d The Macedonian countermarch. To your first posture. d The Chor aun countermarch. To your first posture. e Battaile wheele to the Pike. To your first posture. e Battaile wheele about to the Pike. To your first posture.

These precepts of the Art Tatticke (most inuincible Casar) I have laide out to our Matie, which will be a meanes of fafety to fuch, as shall vie them, and of he ouerthrow of their enemies.



THE EXERCISE OF THE ENGLISH IN

the feruice of the high and mighty Lords, the LORDs the ESTATES of the vnited PAOVINCE SINGLEOW COVERNIS.



HE Soldiers are divided into two kindes, Foote and Horfe. The
Foote agains are of two kindes; Pskemen and Macketters.

Pikemen are armed with a head-peece, a Curace and Tafes defensive, and with a Pike of sifteene footelens, and a Rapier offensive. The Armour is all yron; the Pike of Alien wood for the Steale, and at the ypper end an yron head of about a handfulllong with checkes about the length of two foots, and

at the butt-end a round firong focket of yron ending in a pike, that is blunt, yet that pe enough to fixe to the ground. The forme thereof is expressed in the graunt figure.

The Mufketier hath a head-peece for defence, a Musker, the barrell of the length of 4 foote, the bore of 12 bulles to the pound; a Bandelier, to which are fathed a convenient number of charges for powder (fometimes as many as 15 on 160 a lether bagge for bullets, with a pruning yron; a Reft for the Musket with an yron forke on the vpper end to support it in discharging, and a pike on the nether end to slicke into the ground; lastly, a Rapier. The sigure of this armour also is here inserted.

Thefe foldiors, both Pike-men, and Musketiers, are disided into Companies; and enery Company confifteth, halfe of Pikes, halfe Musketiers. The Companies are fome more in number, fome leffle. Some reach to 300 men, fome 200, fome 100, fome 90, fome 90, fome 70. Euery Company hath thefe officers of the field: A Captaine, a Lieutenant, an Enfigne, a Serieants, 3 Corporalis, two Drommes; and for other vies a Clerke, a Surgion, and a Prouoff.

Companies are compacted into Regiments; and the Regiments commanded by Coronells. Regiments conteins not alwaies a like number of Companies, frome hauing 10, sene 11, 12, 13, 14, 15, frome 30 Companies and abone. In energy Regiment are a Coronell, a Lieutenant Coronell, a Sericant Maior, all officers of the field; a Quarter-master, and a Pround-martiall for other impropenents. It shall not be greatly to the purpose to menion higher officies; then Coronells, my principal lintent being no other, then to fer downe the amoes and exercise of our Nation in the faid vinted Provinces. Their exercise followers.

The Exercise of a foote Companie.

Inth both Pikes and Muskets are ordered into files of 10 deepe. The Muskeriers are sometime placed before, sometime in flanke, sometimes in the reare

To exercise the motions, there are two distances to be observed. The first is when every one is distant from his fellow 6 toote square, that is in

The second is when every Souldier is 3 soote distant one from the other aswell file and ranke 6.

in file, as in Ranke.

And because the measure of such distances cannot be taken so instly by the eye, the distance of 6 foot betwixt the files is measured, when the Souldiers stretching out their armes doe touch one an others hands: and betwixt the Rankes, when the ends of their pikes come well night to the heeles of them, that march before. And the measure of 3 foote betwixt the files is, when their elbowes touch one another; betwixt the rankes, when they come to touch the ends of one anothers Rapiers.

For to march in the field, the distance of 3 foote from file to file is kepr, and of

6 foote from Ranketo Ranke.

To order themselues in Battaile, as also to goe towards the enemy, the distance of 3 foote in file, and ranke, is observed; and likewise to conversion or wheeling.

The Mulquettiers also going for to shoote by Rankes keep the same distance of 3 foot, but going to kirmish they goe ala Disbandade, which is out of order.

There is yet another fort of diffance, which is not vied, but forto receive the enemy with a firme stand, and serueth for the pikes onely (for the Musquettiers cannot be so close in files, because they must haue their Armes at liberty) & that is, when every one is distant from file to file a soote and a halfe, and 3 soote from Ranketo Ranke. And this last distance is thus commanded, Close your seines throughly. But it is not to be taught the Souldiers, for that, when necessitie shall require it, they will close themselues but too much, of their owneaccord without command.

To begin therefore to doe the exercises, the Company is set in the first distance, to wit of 6 foote in file, and ranke, and thus is faid

These are the generall words of Command Stand right in your files. Stand right in your rankes. which are often to be vied. Silence.

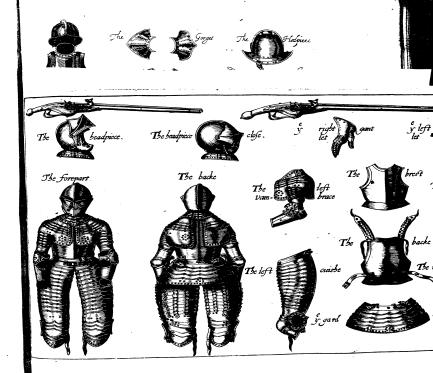
To the right hand. Asyou were.

To the left hand. As you were.

To the right hand about. To the left hand as you were.

To the left handabout. To the right hand as you were. You must note , that when they are commanded to be as they were, they must returne thither, from whence they parted; and if they turned to the right hand , they must returne to the left, and fo in countermarch.

To



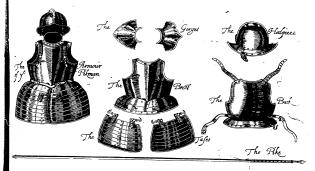
Charge

The Exercise of a foote Companie.

First both Pikes and Muskets are ordered into files of 10 deepe. The Musketiers are sometime placed before, sometime in flanke, sometimes in the reare of the pikes.

To exercife the motions, there are two dift ances to be observed. The first is when every one is distant from his fellow 6 toote square, that is in

file and The in file, a And the diff out the the end And th anothe thers R Fort 6 foote To ftance: wheeli The 3 foot, Thei cnemy cannot is, who from F through require comm Tol stance. Stand Stand Silence Tothe Asyon Toth As yo Toth Toth Toth Toth...



מון באור בון און בייני ווי וויינים ון און ביינים וויינים וויינ

To the right hand wheele. To the left hand wheele.

Open your Rankes backwards in your double diffance to wit at 12 foote, and this for a fingle Company.

Rankes as you were, fe. at the first.

In opening Rankes or Files, you must keepe them closed vntill the second Ranke or File beginning from the outsides have taken their distances, and so shall the rest remaine close vntill every Ranke or File have taken their distances in order.

Open your files, to wit to the first distance of 6 foote.

If you will command to close files to the right hand or left hand, the outmost file frandeth fill, and the rest close to that file.

For the Pike with a firme stand.

Advance your Pikes. Order your Pikes. Slope your Pikes.

Charge

is, whe from R f

To the right double your rankes. Rankes as you were.

To the left hand double your rankes. Rankes as you were.

To the right hand double your files. Files as you were.

To the left hand double your files. Files as you were.

With halfe files to the right hand double your Rankes. Halfe files as you were.

With halfe files to the left hand double your Rankes.

Files to the right hand countermarch. Files to the left hand countermarch.

To the right hand or left at discretion as you were.

Rankes to the right hand countermarch. Rankes to the left hand countermarch.

To the right or left hand as you were.

Close your Files
Close your Rankes Sto 3 soote distance.

Visiter frank that in Closing from the outsides to the middle the Soldier is suffending to distance of 3 force in file, and not closer.

To the right hand wheele.
To the left hand wheele.

Open your Rankes backwards in your double diffance to wit at 12 foote, and this for a fingle Company.

Rankes as you were, fe. at the first.

In opening Rankes or Files, you must keepe them closed vntill the second Ranke or File beginning from the outsides have taken their distances, and so shall the rest remaine close vntill every Ranke or File hane taken their distances in order.

Open your files, to wit to the first distance of 6 foote.

If you will command to close files to the right hand or left hand, the outraoft file frandeth fill, and the reft close to that file.

For the Pike with a firme stand.

Advance your Pikes. Order your Pikes. Slope your Pikes.

Charge

Charge your Pikes. Order your Pikes. Traile your Pikes. Cheecke your Pikes.

More for the Pikes first with a firme stand and then marching.

Charge your Pikes.
Slope your Pikes.
To the right hand charge your Pikes.
Slope your Pikes.
To the left hand charge your Pikes.
Slope your Pikes.
Charge your Pikes to the Reare.
Slope your Pikes.

Order your Pikes. This must be observed charging your Pikes with a firme stand to set she right sook behind, and charging the Pikes marching to set the left soote before.

For the Musquet.

He Postures in his Excellencies Booke are to be observed; but in exercising you must onely vie these three termes of direction.

Make ready. Prefent. Gine fire.

Your Musquettiers must observe in all their motions to turne to the right hand, and that they carry the mouth of their percessingh, as well-when they are shouldred, as in pruning, and also when they hold their pannes garded, and come up to give fire.

In advancing towards an Enemy, when they doe not skirmish loose and dis-

banded, they must give fire by Rankes after this manner.

Two Rankes must alwaies make ready together, and aduance ten paces forward before the body, ar which distance, a Sergeant (or when the body is great fome other officer) must stand, to whom the Musquertiers are to come vp before they present, and give fire, first the first ranke. And whilest the first gives fire, the scood Ranke keeper their Musquest color to their Rests, and their pannes garded, and associate the first are fallen away, the second presently present, and give sire, and fall after them.

Now affoone as the first two Rankes doe mone from their places in the front: The two Rankes next them must vnshoulder their Musquets, and makeready, so as they may aduance forward ten paces as before affooneas ener the two first rankes are fallen away; and are to doe in all points as the former. And all the other Rankes through the whole dinision must doe the same by twoes, one after another.

A manner

A manner there is to give fire retyring from an Enemy, which is performed after this forte.

As the Troope marcheth the hindermost ranke of all keeping still with the Troope is to make ready, and being ready, the fouldiers in that ranke turne alto-rhemosy is gether to the right hand and give fire, marching presently away a good round the space to the front, and there place themselves in ranke together into before the front: As soone as the first ranke turne to give fire, the ranke next makes ready, and doth as the former, and 6 other effe.

We give fire by the flanks thus. The vppermost file next the Enemy must be The commanded to make ready, keeping still along with the body, till such time, as Market they be ready, and then they sure to the right, or left flank of (according to the sight of their enemies either vpon the right, or left flanke) and give fire altogether. When they have discharged they stirre not, but keepe their ground, and charge their Peeces againe in the same place, they stand. Now as soone as the foreshid file doth turne to give fire, the vttermost next it makes ready alwaies keeping along with the Troope till the Bringer-up be past a little beyond the Leader of that file, that gaue sire last; and then the whole sile must turne, and give sire, and doe in all points as the first sid, and so the rest one after the other. A Suggan, or if the Troope be great some other better qualified Officer must sand the head of the first sile, and associated the standard of the sand hath charged, he is to lead soward the first sile up to the second sile, and so to the rest one after another, till he hash gathered up againe the whole wing, and then he is to loyne them againe in equal front with the pikes.

Laft of all the Troope or whole wing of Musquettiers makes ready altogether, The comp in and the first ranke without advancing gives fire in the place they stand in; and from speedily, as may be, yet orderly falls away, all the rankes doing the same successions with the same successions.

Thus much of the armes and exercise of the foote.

The horse ensue.

The order and discipline bolden in Horse-proopes, or in the Cavalry

HE Canalry hath for his Cheife the Generall, the Lieutenant Generall, and the Comiffary generall.

To the Cavalry there is a Quarter-mafter generall, and a Prouoft generall belonging; the luftice reforeth to the Councell generall of warre of the Army. The Cavalry is of two forts. Has quelenfers, and Cavalfass.

The first haue for defensine armes, the Curace pistoll proofe, and a light head-

peece. For offensiue the Carbine of 3 foote, 3 inches length; and the bote of 20 bullets in the pound, and Pillolls like vato the Carafters.

The Curaffiers have for defendine Armes a compleat armour, the Curace piffoll proofe. For offendine two piffolls having the barrell of 26 inches in length, and the bore of 36 bullets in the pound. See the figure of Armes.

For the order in Regiments the 40 Companies entertained by the States doe make cleuen Regiments.

The Regiment of the Generall hath alwaies the Vantgard, the others alternatively

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natively and by turnes, and he that hath it this day, the next day after hath the Reare, the rest following in the same fort.

Those which command the Regiments are called Coronells. The Regiments are compounded of 3, or 4 Companies (of 3 at the least) and the Coronells Company marcheth alwaies on the left wing of the Regiment.

The Captaines receive orders from their Coronells, as these from the Com-

missary Generall.

All the Companies are divided in 3 equall parts, which are called Squadrons, and distributed to the three chiefe officers; Captaine, Cornett, and Lieutenant,

and diffributed to the three chiefe officers; Captaine, Cornett, and Lieutenant, hauing each of them adiopned an old Souldier, which they doe know to bee of more defert, called a Corporall.

Marching in the field, enery Officer marcheth at the head of his Squadton, the Lieutenant excepted, which marcheth behind with the Quattermafter; and the third Corporall at the head of the Lieutenants Squadron.

The Companies are divided by files, and rankes, the file 5 deepe, and no more, how firong foeuer the Company be.

They observe that in marching in battaile they must be close together, and to doe the Motions there must be 6 foote distance from one Horseman to another.

The Companies being in battaile, there must be 2.5 paces distance left between

euery Company, and 50 betwixt euery Regiment at the leaft.

The exercise of Armes for the Cavalry.

To open the Squadron you must first open the rankes and after the files.

To close the Squadron, you must first close the files, and after the rankes.

There be two forts of distances betwire the files; the one close, and the other

In the Close there must be no distance or intervalls betwirt the files, to the

epen there must be 6 soote betwixt energy sile.

Likewifether must be two sorts of distances betwixt the rankes; the Close, which must be without intervall or streets; and the Open, which must be six

foote distance.

In a march it must be venderstood, that the rankes must neuer be more opened, then the open distance of 6 stote.

And to the end that the Troope may march in good order, and observe well their distance betwixt the rankes, without that the last may be forced to runne or goe to fast, there must be heed taken, that so soone, as the first rankes begin to march, all the Troope, and the Reare also at one time smarch.

Thewords of Command are

Open your Rankes. Open your files.

Stand right in your rankes. Stand right in your files.

To the right hand. As you were. So the left hand. As you were.

To the right hand about. To the left hand as you were.

To the left hand about. To the right hand as you were.

Files to the right hand countermarch. Files to the left hand countermarch.

To the right or left hand as you were.

Rankes to the right hand countermarch. Rankes to the left hand countermarch.

Close your files. Close your rankes.

To the right hand wheele.
To the left hand wheele.



Faniss (caped in the Booke.



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